NX-8E PoE 802.3af

8-CHANNEL STANDALONE HD1080P PoE NVR

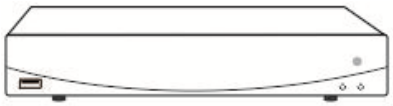
NX NVR REAL TIME SERIES

ONVIF 2.2

QR Code Scan & Connect Auto Network Setup

* H.264 High Profile Compression Dual Streaming
* 8CH HD1080P IPCam Recording / 4CH IP channel playback
* Support HDMI + VGA (HD 1080p Live View)
* Built-In 8-Channel 10/100 PoE 802.3af Switch
* Free APP iView NVR , NX CMS and NX SMART SEARCH Software

Video	**Input**		**HD IP Camera x 8 via Embedded Ethernet PoE Switch (802.3af)**
	Output x 2		VGA (Maximum HD 1080p) , HDMI （ Maximum HD 1080p）
System	**Operating System**		Embedded Linux OS
	SATA Devices		Maximum 6TB: 1 x SATA HDD (Internal) + 1 x eSATA HDD (External)
	USB		2 x USB2.0
	Dimension (mm) & Weight		260(W) x 41(H) x 230(D), 1.8KG
	Power Supply		Input 100~240V, Output 48V 2A
	Power Rating (Not include PoE)		10W
	Account		1 Admin + 9 Users
Display	**Speed**		240 fps (NTSC) / 200 fps (PAL)
	Split Screen		1,4,8,SEQ.
	Mode		Digital Zoom (x2 ~ x6), PIP, Auto SEQ.
Recording	**Compression**		H.264 High Profile
	Dual Stream Resolution (Pixel)	**Main**	1920x1080,1280x720 (NTSC)
		Sub	1/4 Main Stream
	Picture Quality		384kbps-6Mbps
	Mode		Normal, Manual, Event, Schedule
	Maximum Speed		240fps@1080P IP Camera
	Pre-Alarm		5 SEC
	Post-Alarm		5/10/15/ 20/30/60/120/300/600 SEC
Playback	**Display**		1, 4
	Search Mode		Date/Time, Event
	Zoom		Digital (x2 ~ x6)
	Snapshot		NO
	Speed		Play, Pause, Stop, Slow(1/2, 1/4, 1/8,1/16), FF/REW(2,4, 8, 16) Frame Step
	Device		Int. HDD
Network	**Network Interface**		1 Port 10/100 Ethernet for LAN + 8 Port 10/100 Ethernet PoE for IPC
	Protocol		TCP/IP, SMTP, HTTP, DHCP, PPPoE, NTP, DDNS ,UPnP, FTP,RTSP,ONVIF
	Application		Windows XP/VISTA/7/8, Mac OS X
	Remote Software		iView NVR APP Software, IE, Chrome, and Firefox Internet Browser
	CMS		NX CMS for Windows 8/7/Vista/XP
	Mobile Device		iPhone (IOS6.0+), iPad (IOS6.1+), Android Phone & Tablets(3.0+)
	Event Transport		E-mail
Backup	**Interface**		USB 2.0
	Audio Backup		YES
	Network		YES
	Backup Device		via USB Flash Drive
Alarm	**Motion Detection**		Detect Frame: Channel
	Event Log		Up to the 5000 Events
	GUI		32-bit True Color
OSD & DVR Control	**Multi-Language**		English, Spanish, Russian, Portuguese, German, Romanian, Chinese, etc..
	External I/O		IR Remote Control, USB Mouse (Included)
	System Upgrade		via USB Flash Drive



NX-series User Manual

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1 NX-Series OVERVIEW

This **User Manual** is to provide a comprehensive operational guide to iView Technology NX-Series NVR and Hybrid NVR. As we are constantly upgrading and updating our software and firmware features for our products, please check http://www.iviewtech.com for the latest update.

Last Update: April, 2014.

1.1. NX-Series Features

DISPLAY	OUTPUT	Support HDMI & VGA output HD1080P
	LIVE VIEW	1/4/8/9/16-Division Live View
	PRIVACY	Support Privacy Mask and Digital Zoom on Live View
VIDEO	FORMAT	Support NTSC/PAL (via Software)
	COMPRESSION	Dual-Stream H.264 High Profile
	ENCODING	Support Individual Channel Configuration (Frame Rate & Bit Rate)
STORAGE	SATA HDD	Support SATA HDD up to 3TB (Internal)
	eSATA HDD	Support eSATA HDD up to 3TB (External)
	RECORDING	Support S.M.A.R.T pre-allocating management
RECORDING	MODE	Manual, Continuous, and Motion (Cycle and Non-Cycle)
	PERIOD	Support 8 Time periods with Separate Types
	EVENT	Support Both Pre-Record and Post-Record
PLAYBACK	MODE	By Channel, Recording, Time, Even Type
	CONTROL	Play, Pause, Rewind, Fast, Slow, Progression Bar
BACKUP	MEDIA	Support External USB memory storage
	REMOTE	Via Network
ALARMS	NOTIFICATION	Network Status, HDD full, IP Conflict and HDD Error
	EMAIL	Support SSL Gmail Notification
NETWORK	MEDIA	Support 10/100 Adaptive Network Interface
	PROTOCOL	TCP/IP, P2P, PPPoe, DHCP, DNS, NTP, UPnP, ONVIF, RTSP
	REMOTE	Playback, Search, Backup, Configuration, Snap Shot
I/O	LIVE	via USB Mouse & IR Remote Controller (Included)

1.2. NVR CONTROL PANEL

NX-4/8 NVR FRONT PANEL

A	USB:	External USB Port for connecting USB Flash Drive
B	POWER:	Power ON Indicator
C	HDD:	Hard Disk Drive (HDD) ON Indicator
D	IR RECR:	Remote Controller Infrad Red (IR) Receiver Port

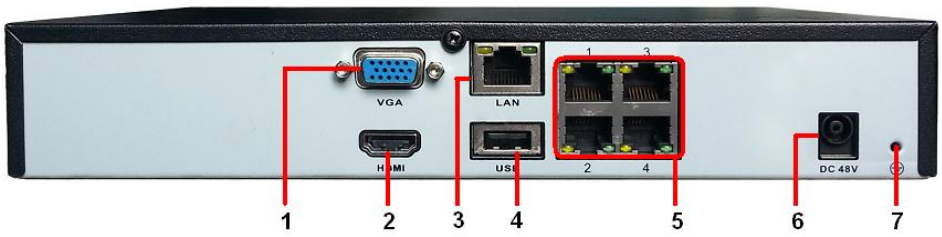
NX-2416 NVR FRONT PANEL

A	USB:	External USB Port for connecting USB Flash Drive
B	POWER:	Power ON Indicator
C	HDD:	Hard Disk Drive (HDD) ON Indicator
D	IR RECR:	Remote Controller Infrad Red (IR) Receiver Port
E	FUNC:	PLAY / DISPLAY / MENU / SELECT Button
F	NAV:	UP / DOWN / LEFT / RIGHT Navigation Button

1.3. NVR BACK PANEL

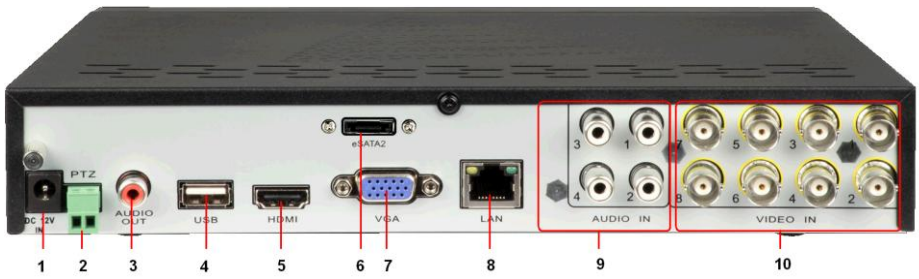
MODEL: NX-4E, NX-8E

No	Item	Description
1	VGA OUTPUT	DB9 connector for VGA output. Display local video output and menu.
2	HDMI OUTPUT	HDMI output, Display local video/Audio output and menu.
3	LAN interface	Connector for LAN (Local Area Network).
4	USB interface	Connector for USB device.
5	LAN interface	4 ports LAN interface for IPCam connections
6	DC POWER IN	12V DC power input for non-PoE or 48V for PoE
7	Ground	Ground



MODEL: NX-88 HYBRID, NX-84 HYBRID

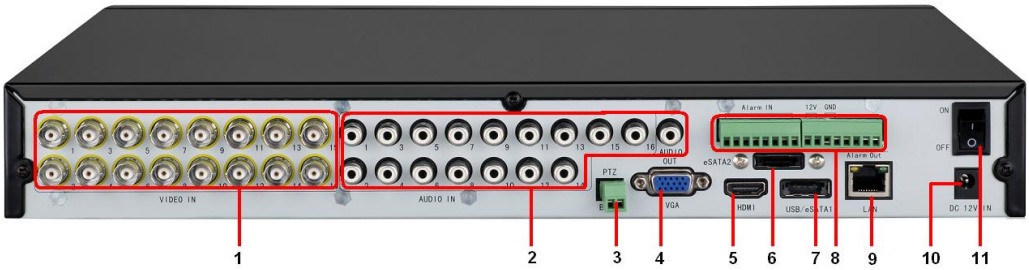
No	Item	Description
1	DC POWER IN	12V DC power input
2	RS485	PTZ control port (Some models don't support this feature)
3	AUDIO OUT	RCA connectors for analog audio output.
4	USB interface	Connector for USB device.
5	HDMI OUTPUT	HDMI output, Display local video/Audio output and menu.
6	eSATA	eSATA port, connect eSATA HDD for recording or backup
7	VGA OUTPUT	DB9 connector for VGA output. Display local video output and menu.
8	LAN interface	Connector for LAN (Local Area Network).
9	AUDIO IN	RCA connectors for analog audio input.
10	VIDEO IN	BNC connector for analog video input.



MODEL: NX-2416 PRO-V HYBRID

No	Item	Description
1	VIDEO IN	BNC connector for analog video input.
2	AUDIO IN and OUT	RCA connectors for 16CH analog audio input and 1CH output
3	RS485	PTZ control port (Some models don't support this feature)
4	VGA OUTPUT	DB9 connector for VGA output. Display local video output and menu.
5	HDMI OUTPUT	HDMI output, Display local video/Audio output and menu.
6	eSATA2	eSATA port, connect eSATA HDD for recording
7	USB/eSATA1	USB/eSATA port, connect eSATA HDD for backup
8	Alarm	IO alarm, 8CH input and 4CHoutput

9	LAN interface	Connector for LAN (Local Area Network).
10	DC POWER IN	12V DC power input
11	Power switch	Power switch



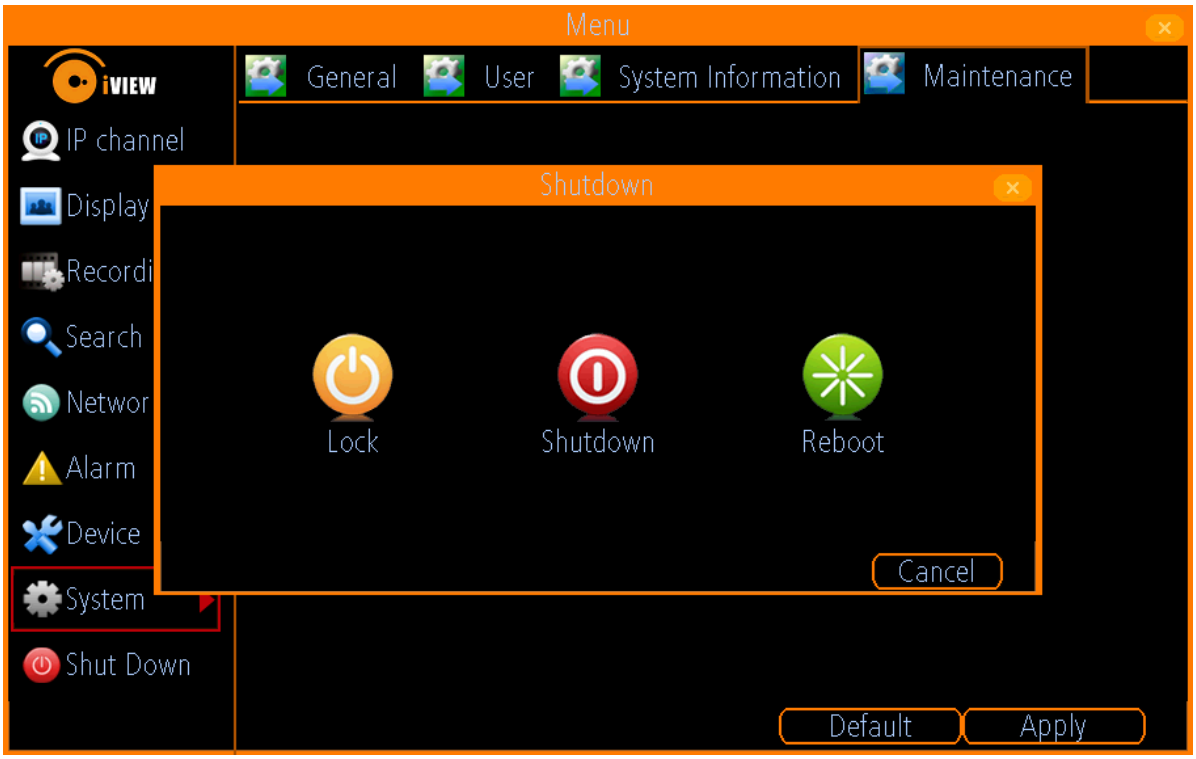
2 GETTING STARTED

2.1 Starting and Shutting Down Your NVR

Proper startup and shutdown procedures are crucial to expanding the life of your NVR. To startup your DVR, please plug the power supply into an electrical outlet. It is HIGHLY recommended that an Uninterruptible Power Supply (UPS) be used in conjunction with the unit. The Power indicator LED on the front panel should turn on, indicating the unit is receiving power.

To shutdown the NVR:

1. Enter the Shutdown menu, click on Menu > Shutdown.



2. Select the Shutdown button.
3. Click the OK button.
4. Unplug the power supply on the rear panel to safely shutting down the system.

2.2 Rebooting and Locking Your NVR

In the Shutdown menu, you may also reboot or lock your DVR. Locking your NVR will return you to the

Live Preview mode, which will require user name and password to exit out of it. The Reboot button will reboot your NVR. To reboot or lock your NVR:

1. Enter the Shutdown menu by clicking Menu > Shutdown.
2. Select the Lock button to lock the NVR or the Reboot button to reboot the NVR.

3 LIVE VIEW

The Live Preview mode is automatically started after the NVR boots up. It is also at the very top of the menu hierarchy, thus hitting the ESC multiple times (depending on which menu you're on) will bring you to the Live Preview mode.

3.1. Understanding Live Preview Icons

There are multiple icons on each display in Live Preview mode to indicate different camera status. These icons include:

Motion Detection Icon: Indicates motion detection.

IP Channel Icon: Indicates this is IP channel, it could be 720P, 960P, 1080P.

Record Icon: Indicates the current channel is recording.

Audio Icon: Indicates the current channel is in audio output.

Alarm Icon: Indicate there is an alarm or exception.

Video Disable Icon: Indicate the preview of this channel is disabled.

3.2. Understanding Live Preview Toolbar

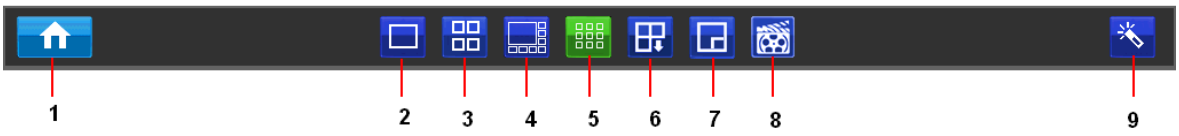
Click any channel in live view mode, a toolbar will be pop up:

1. Playback: click this icon, enter the menu of playback;
2. Audio: mute/unmute this channel;
3. PTZ: control the PTZ of this channel
4. Digital Zoom
5. Image parameter control: change the parameter of this camera

6. Channel configuration

7. Exit toolbar

3.3. Understanding Home Menu



Click the right-button of the mouse, the home menu will be pop up:

1. Home Icon: enter the main menu;

2. Single channel live view;

3. Four channels live view;

4. Eight channels live view;

5. Nine channels live view;

6. Next group live view;

7. Picture in picture mode;

8. Manual record;

9. Setup wizard

3.4. Using Digital Zoom

To use digital Zoom in Live Preview mode:

1. Click one channel on live view, the toolbar will be pop up;
2. Select Digital Zoom, enter digital zoom mode:

   : To enlarge the picture 2 times for each click. 6 times at most;

   : To shrink the enlarged picture till normal one;

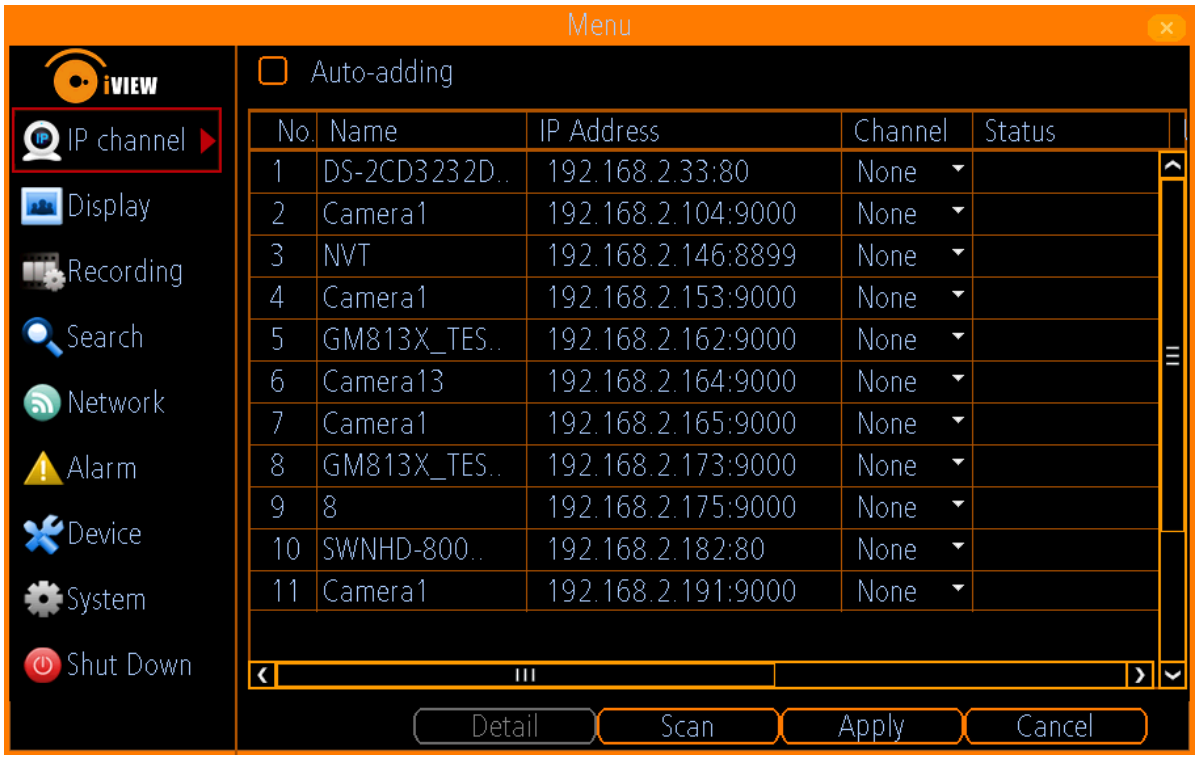
   : To enlarge the selected area to full screen;

   : To turn the picture into normal size;

   : Exit.

4 IP CAMERA CHANNEL

The IP CAMERA Channel menu enables you to view specific information about cameras that are currently connected to your NVR such as channel number, IP address and status.



Auto-adding: If you check it, your NVR will automatically display video from cameras it has detected in your local area network. This option is disabled by default, so you have to manually add the IP cameras to your DVR.

IP Camera list: In this list, all the IP cameras in your local area network will be listed here automatically after you click the button of **Scan.**

- To add an IP camera to you NVR, please select an available channel to which you want to assign a camera from the channel drop-down list, and then input the user name and password. Also you can manually add an IP camera by inputting the IP address/port or RTSP URL, user name and password into the list. When you're finished, click the Apply button to save the new configuration.
- To delete an IP camera from your NVR, please select that IP camera and select **none** from the channel drop-down list. When you're finished, click the Apply button to save the new configuration.

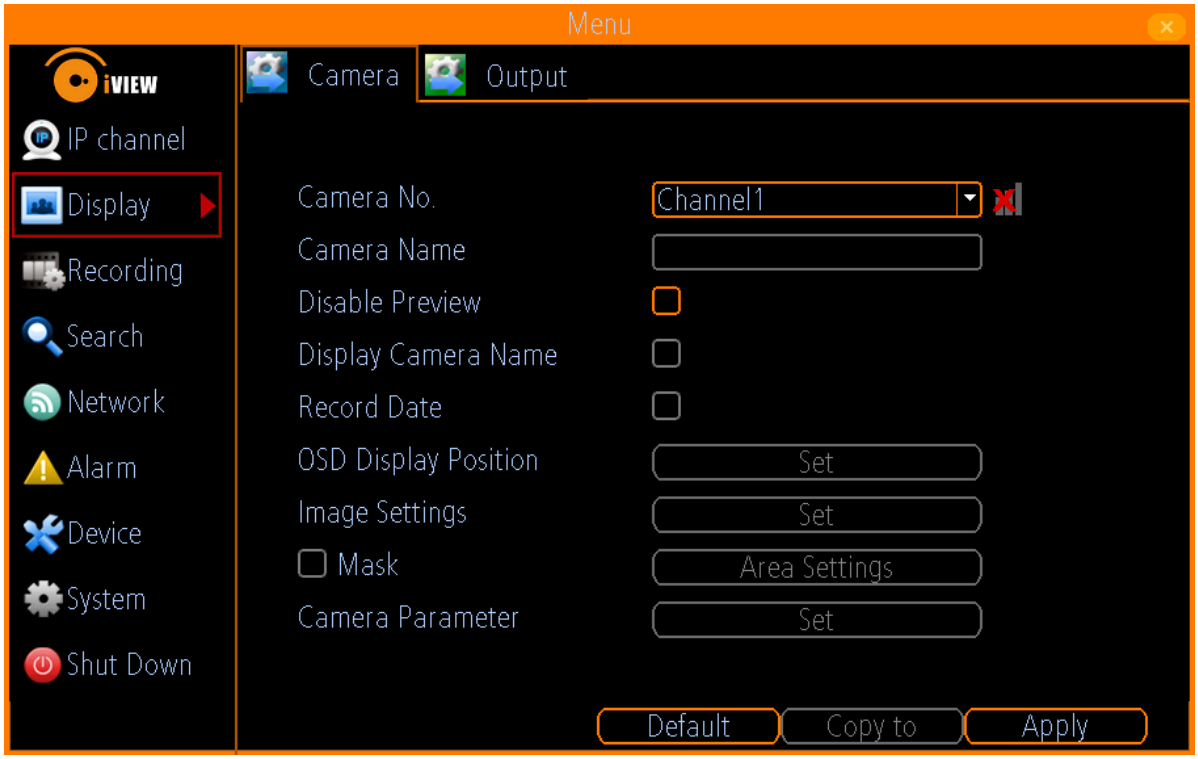
Detail: if one IP camera is connected with your NVR, you can click this button to show this IP camera's status:

Scan: Click this button, all the IP cameras in your local area network will be listed.

5 CONFIGURE DISPLAY

5.1. Camera Settings

Camera menu is where you can make adjustments to how the NVR displays the feed coming from your cameras. You can adjust aspects of each channel/camera, includes:

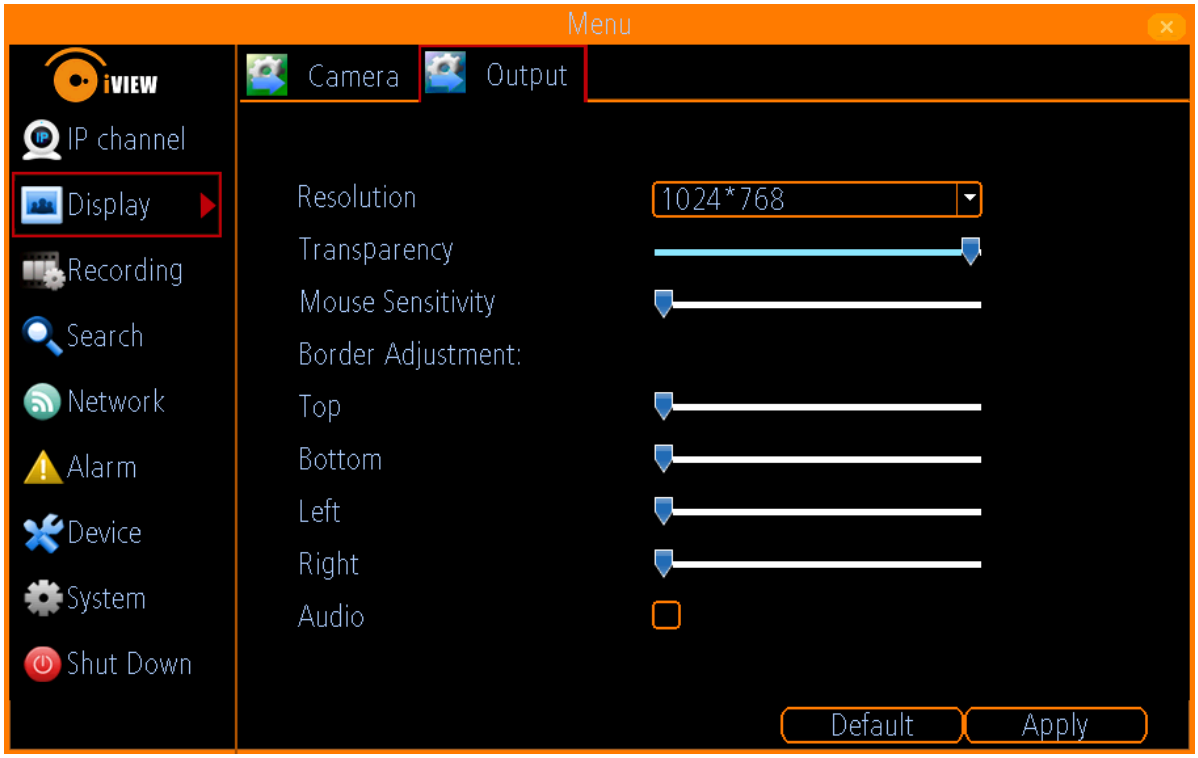


- **Camera No.**: Choose the camera / channel you want to edit here. The Camera No is the same thing as the number written on the rear panel next to the BNC socket used to connect the camera.
- **Camera Name:** Select a name for the camera you've selected. By default, all channels are named as the Camera No. field, but this can be set to anything you'd like up to 16 characters.
- **Display Camera Name:** When checked, the name you've selected for the camera/channel will be displayed on-screen as an overlay.
- **Record Date:** When checked, the date (as displayed) will be recorded directly on to your videos. This can be useful, as it creates an inseparable record of exactly when the footage was captured.
- **OSD Display Position:** Gives you access to a screen where you can easily set the exact positions of any overlaid text, such as the camera name and the date and time. You can simply select any item you want to move (such as the Channel Name and/or the Date and Time) and click and drag it to the position you'd like it to be. To exit the OSD Display Position screen, press the right click button. A context menu will appear with two options: Save and Exit. To exit without saving, simply choose Exit. If you want to save your changes, choose **Save** first.
- **Disable Preview:** When checked, the live view of the channel you've selected will be disabled.

- **Image Settings:** Gives you access to change camera image, including brightness, contrast, saturation and hue
- **Mask:** When checked, allows you to create, place and shape a “privacy mask” which obscures part of the image on the associated channel.

5.2. Displays Output Settings

Live Preview displays can be customized to your own needs..



The settings available in this menu include:

- **Display resolution**
- **Transparency**: To adjust the menu transparency.
- **Mouse Sensitivity**
- **Border Adjustment**: To adjust the border of video output.
- **Audio:** Enables/disable audio output for the selected video output.

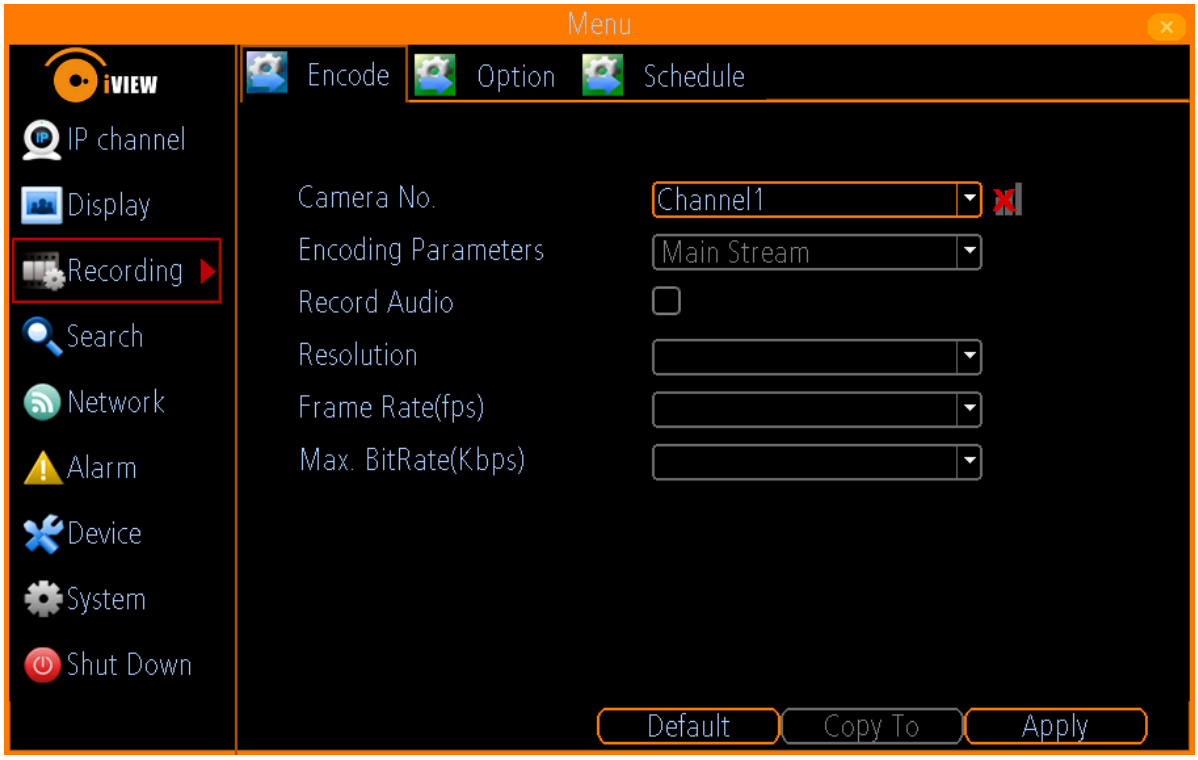
6 CONFIGURE RECORDING

There are multiple ways to setup your NVR for recording. They include setting up a recording schedule, triggering a recording by motion detection, and manually starting the recording.

6.1. Initializing Record Settings

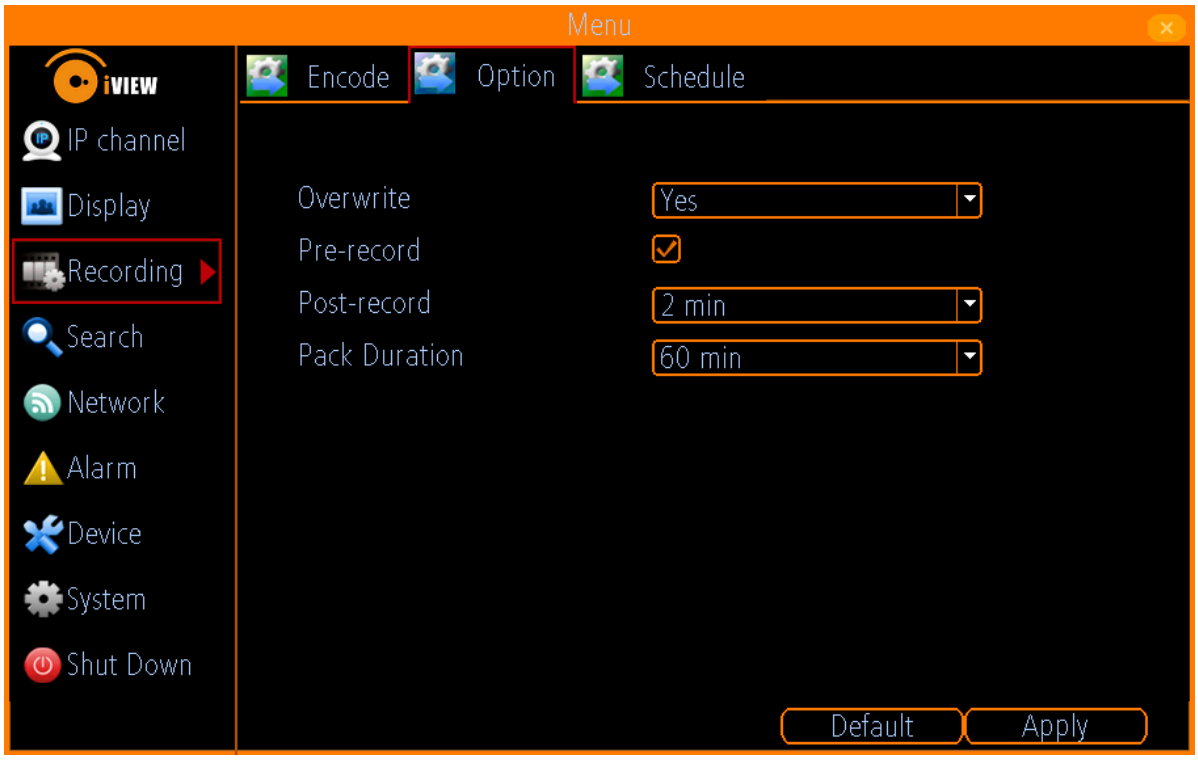
Before setting your NVR up for recording, certain settings should be configured first. The steps to configuring these settings are:

1. You should initialize the HDD through HDD management before proceeding.
2. Navigate to Main Menu > Recording. You will be taken to the Record Settings menu.



3. Select the camera you would to configure the settings for.
4. Configure settings for:
   - **Encoding Parameters:** Select main stream or sub stream.
   - **Record Audio:** Select to record audio of the camera.
   - **Resolution**.
   - **Frame Rate:** Select recordings frame rate.

- **BitRate Type:** Select either Variable or Invariable bit rate.



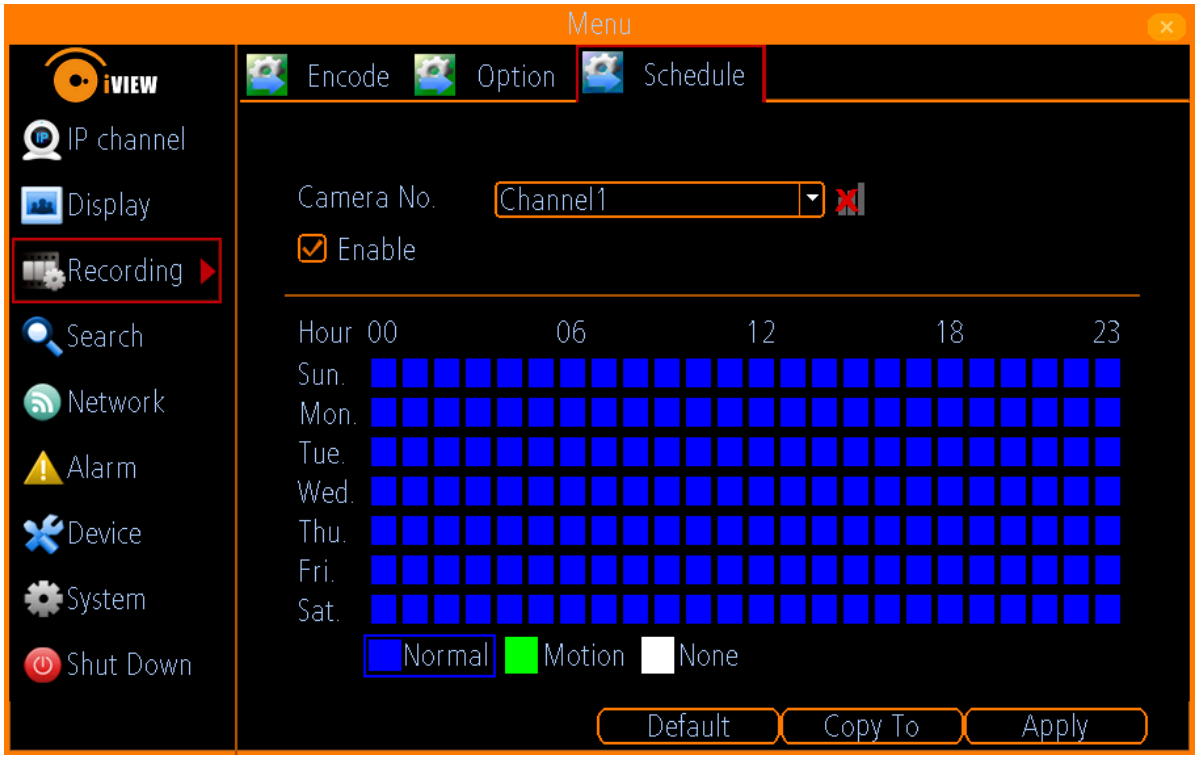
Set additional record settings:

- **Overwrite:** Sets to overwrite the HDD to continue recording when it is full.
- **Pre-record:** Sets the time in seconds to pre-record before the actual recording begins.
- **Post-record:** Sets the time in seconds to post-record after the actual recording ended.
- **Pack Duration:** set the time in seconds for how long the NVR will be recording before splitting the output file.

6.2. Scheduling a Recording

Scheduling a recording allows you to setup the NVR to only record when you want it to.

To setup a recording schedule:

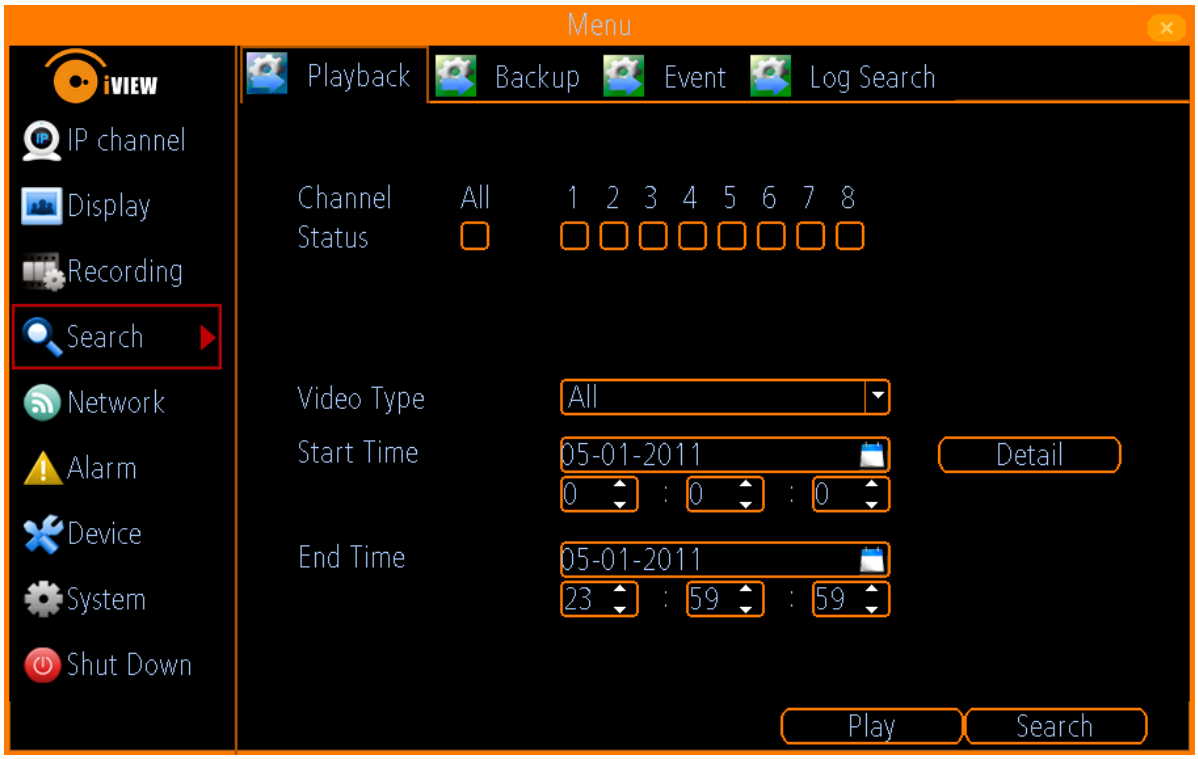


1. Enter the Record Settings menu (Main Menu > Recording > Schedule).
2. Select Camera to edit schedule for.
3. Click and check Enable Schedule.
4. Select recording Type. Recording type can be based on time and triggered by schedule, motion detection, motion or alarm and alarm. Motion detected and alarm triggered recordings are further explained in Configuring Alarms.
5. Repeat the steps for other cameras or copy settings from one channel to others by Copy To;
6. Click OK to finish and save the schedule settings.

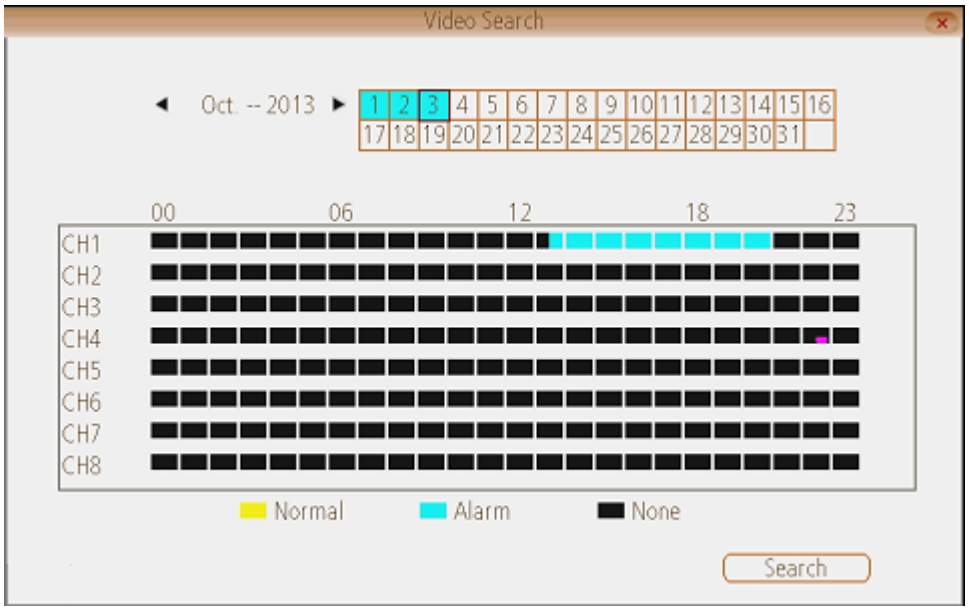
7 PLAYBACK AND BACKUP

7.1. Playback files from a video search

To initiate playback:



1. Select the channel you'd like to playback..
2. From the Video Type menu, select the type of video you'd like to playback. The options are Manual, Schedule, Motion and All.



3. Set your Start Date/Time and your End Date/Time. If you want to see a graphical representation of when recordings were made and what recording mode triggered them, choose Details.
4. Select Search.
5. Choose which file you want to play back for the file list;
6. Choose which camera you'd like to view the video from.
7. To initiate playback, select Play.

7.2. Understanding the Playback Interface

Audio on/off: Select to open or close the audio;

Fast backwards: Select to rewind recording files at the speed of x2, x4, x8, and x16;

Play; Select to return to normal speed to playback files;

Pause / Single Frame: Select to pause or play in single frame;

Fast Forwards: Select to play the recording files forward at the speed of x2, x4, x8, and x16;

Slow Forwards: Select to play the recording files forward at the speed of x1/2, 1/4, 1/8, 1/16;

Hide; Select to hide the play control panel;

Exit; Select to exit playback;

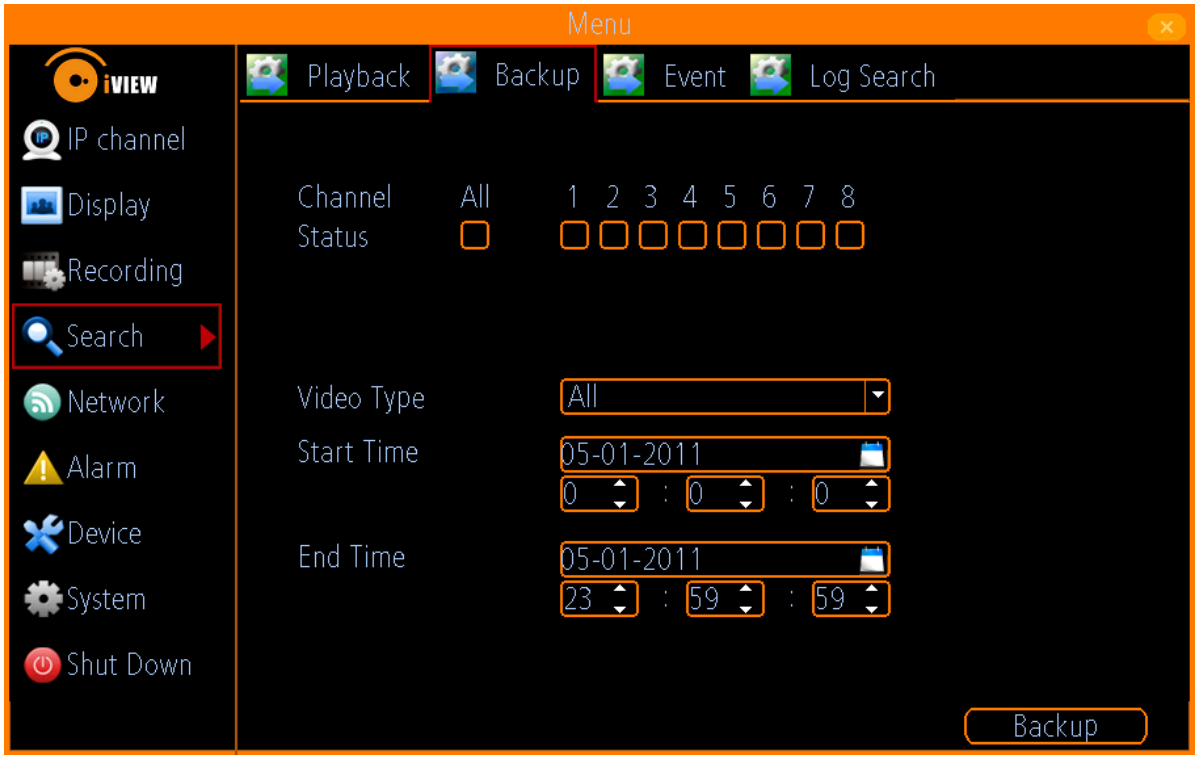
Zoom out the time

Zoom in the time

Pop Up menu: supports digital zoom, show/hide the console and exit playback.

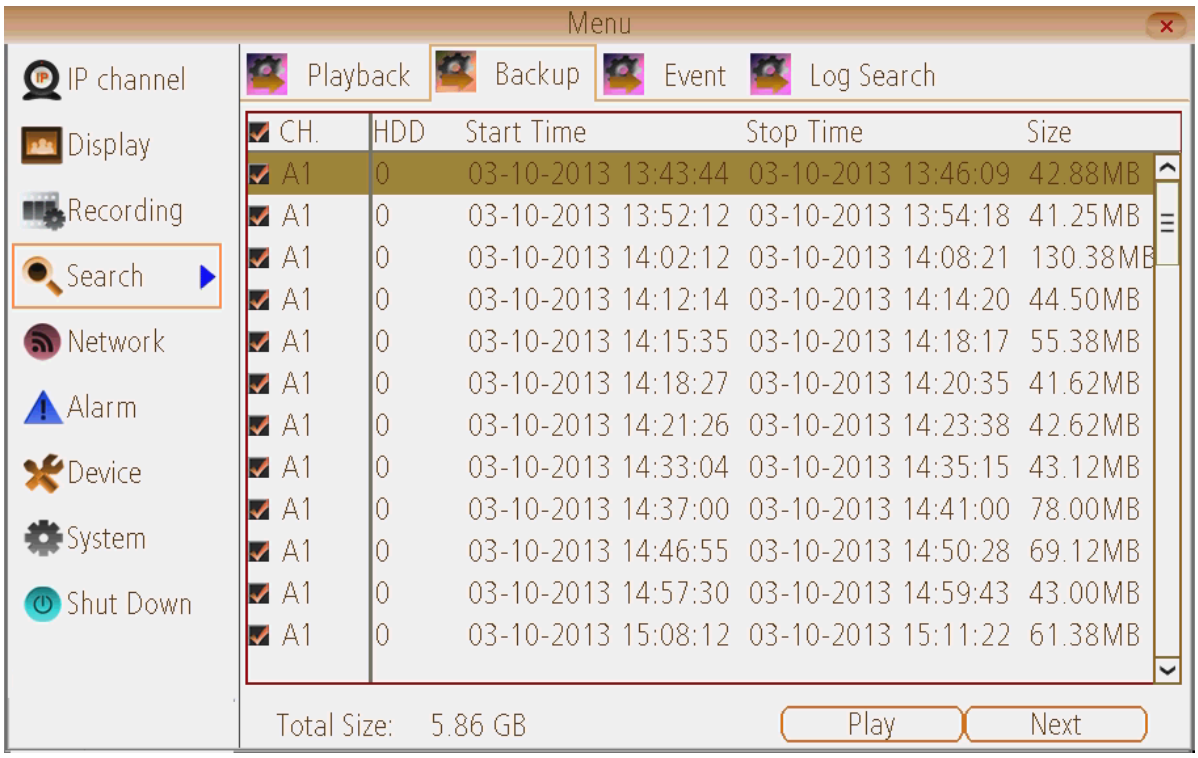
7.3. Backup the recorded file

To backup the recorded files:

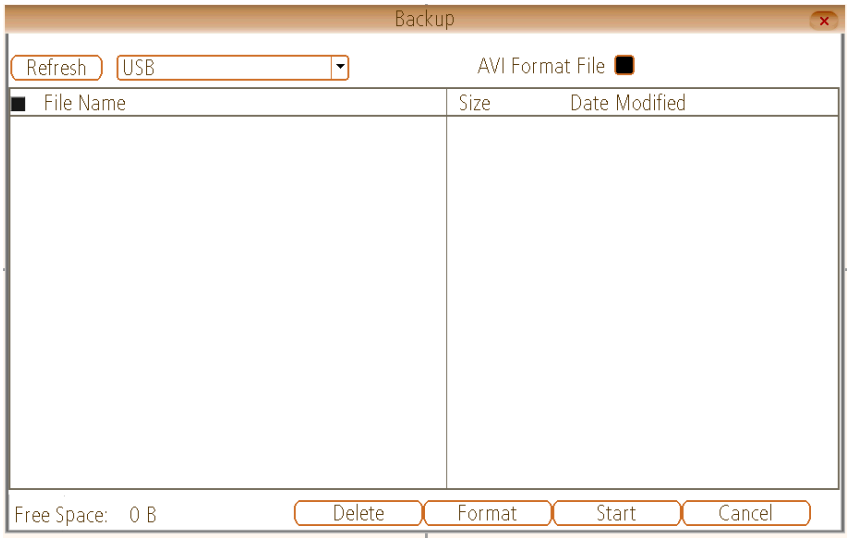


1. Select the channel you'd like to backup.
2. From the Video Type menu, select the type of video you'd like to playback. The options are Manual, Schedule, Motion and All.
3. Set your Start Date/Time and your End Date/Time

4. Select Backup, the backup file list will be shown.



5. Select the file(s) to be backup, and click Next;

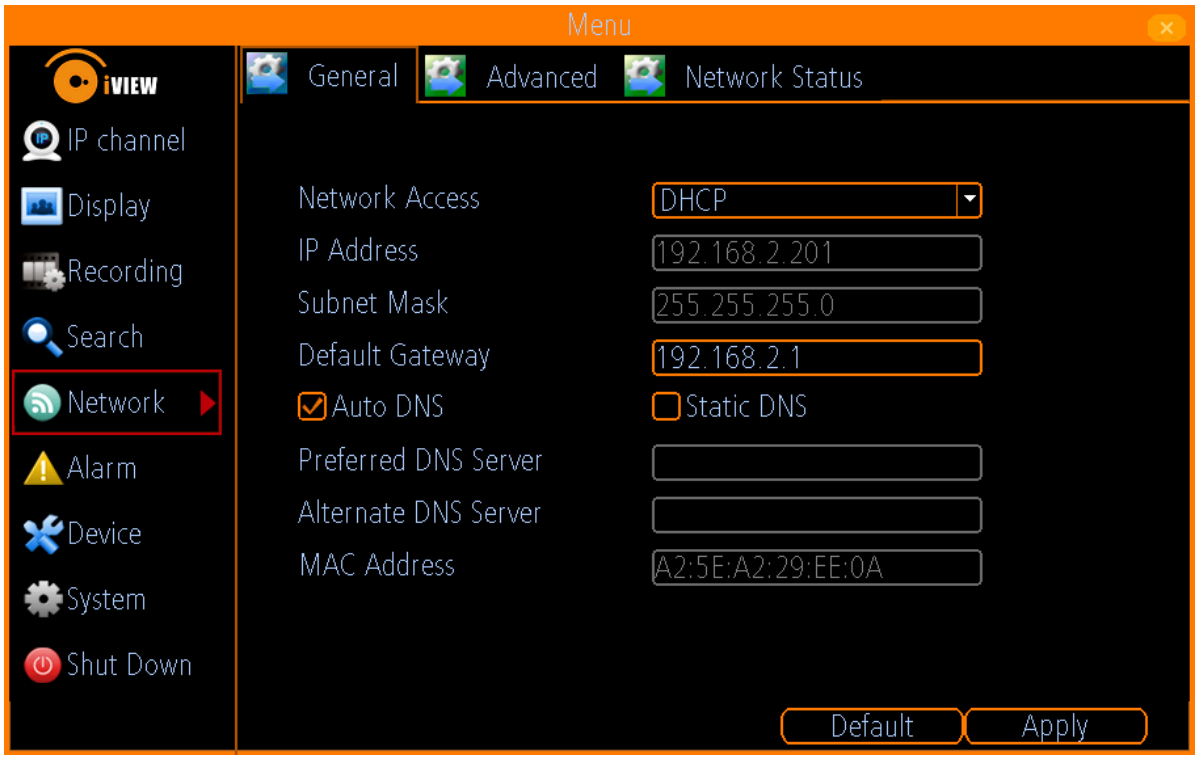


6. Click Refresh to look for USB devices to which recorded files can be backed up;

7. Click start to begin the backup.

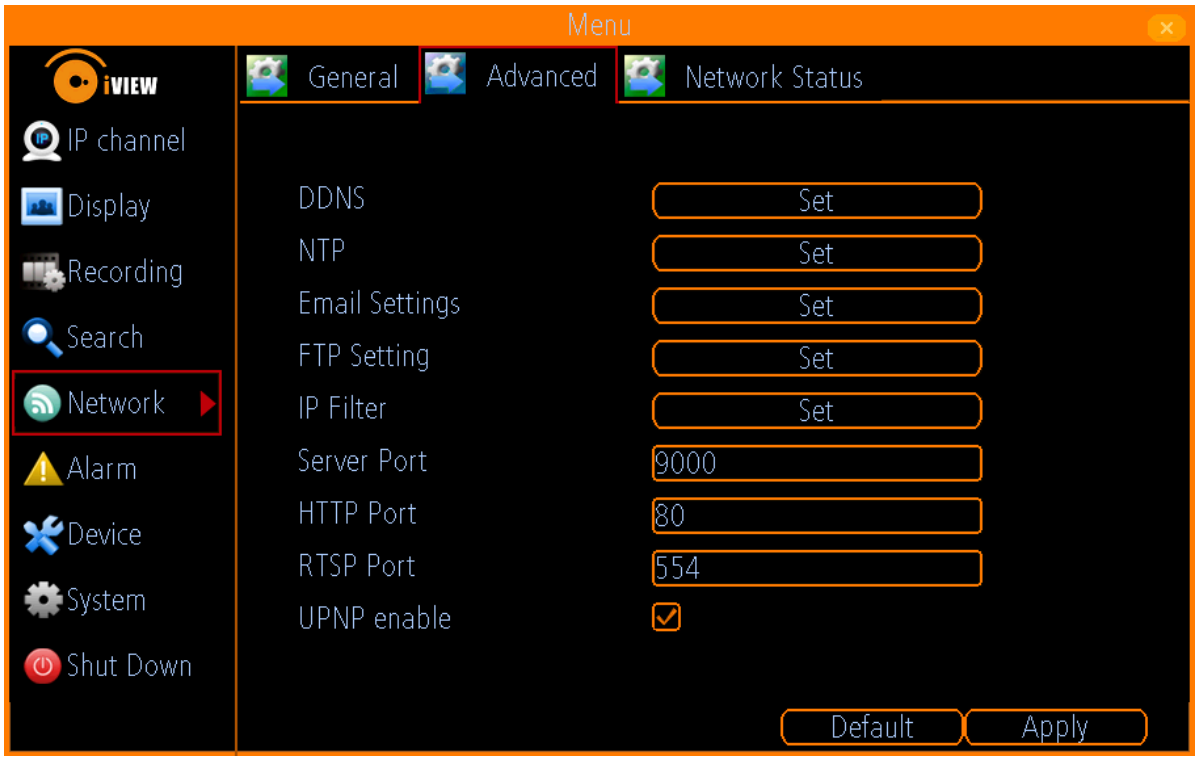
8 CONFIGURE NETWORK

8.1 Configuring General Settings



1. **Network Access**: Here you can choose between the three different types of networks that the NVR can be connected to. The three types of networks are:
   1) **DHCP**: DHCP (Dynamic Host Configuration Protocol) is a system where one device on your network (usually a router) will automatically assign IP addresses to devices connected to the network.
   2) **STATIC**: Static networks require all devices to have their IP addresses manually defined, as there is no device dedicated to automatically assigning addresses.
   3) **PPPoE**: An advanced protocol that allows the NVR to be more directly connected via a DSL modem. This is an option for advanced users only.
2. If you select Static in Network Access, you will need to input IP Address, Subnet Mask, Default Gateway and DNS information.

8.2 Configuring Advanced Settings

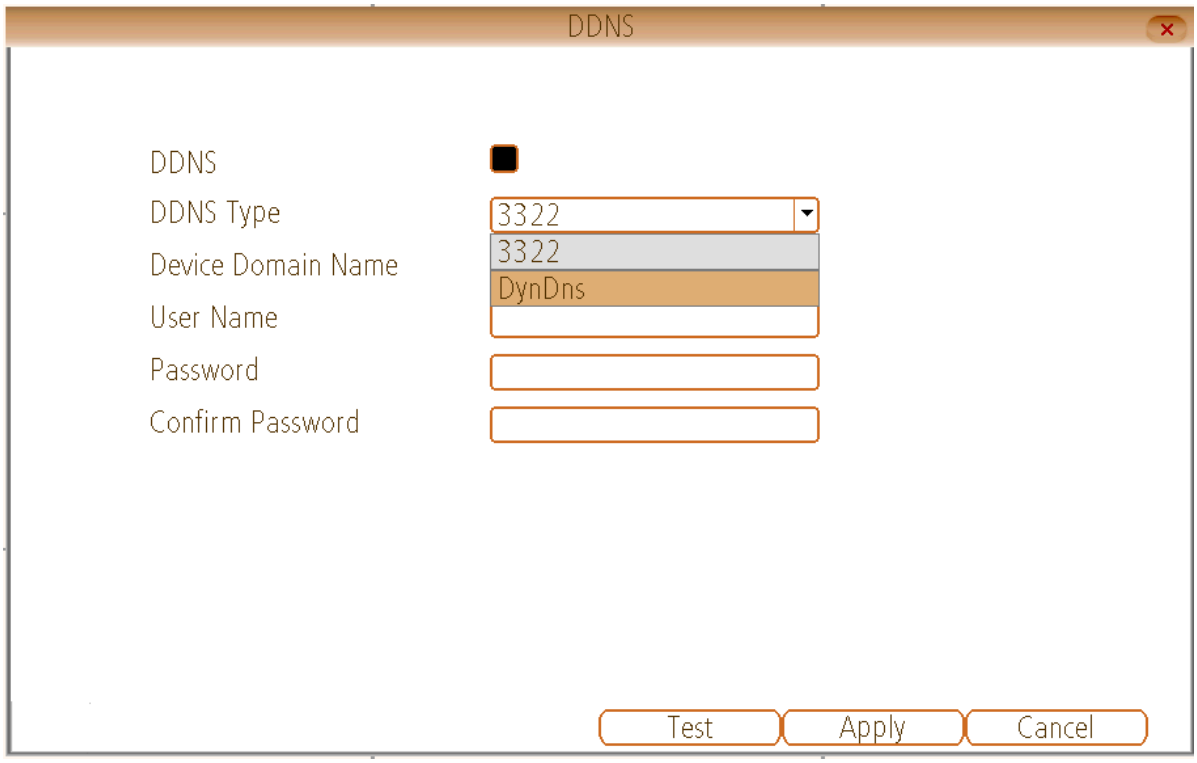


1. **DDNS**: The place to configure the NVR to automatically update a dynamic DNS service. If you want to remotely access the NVR via the Internet, you'll probably need to configure a DDNS account.
2. **NTP**: Network Time Protocol. If you've got the NVR connected to the Internet, you can have it automatically sync time with an online server.
3. **Email Settings**: Where you can configure the NVR to work with an email account of your choice. This must be correctly configured for the NVR's auto-email feature to work.
4. **FTP Settings**: NVR supports to upload live-view streaming or recording file to FTP server. Here you can configure the FTP server information and the schedule for uploading.
5. **IP Filter**: An advanced feature which allows you to exercise precise control over what devices/IP address(es) are allowed to communicate with the NVR and which are not. Recommended for advanced users only.
6. **Server Port**: This is the port that the NVR will use to send information through. When you access your NVR from web browser or client software, you need to input the server port.
7. **HTTP Port:** This is the port through which you will be able to log in to the NVR via web browser.
8. **RTSP Port**: This is the port through which you will be able to live-view the NVR via RTSP client software.

9. **UPNP**: UPnP makes configuring your network easier and faster. To use the UPnP setting on the NVR, you'll need a router which supports this feature, with UPnP enabled.
10. **UID**: The DVR's Unique Identifier code for P2P. For convenience, you can have this code sent to your email account by clicking the Send UID button (provided that you've already set up your email account)

8.2.1 DDNS

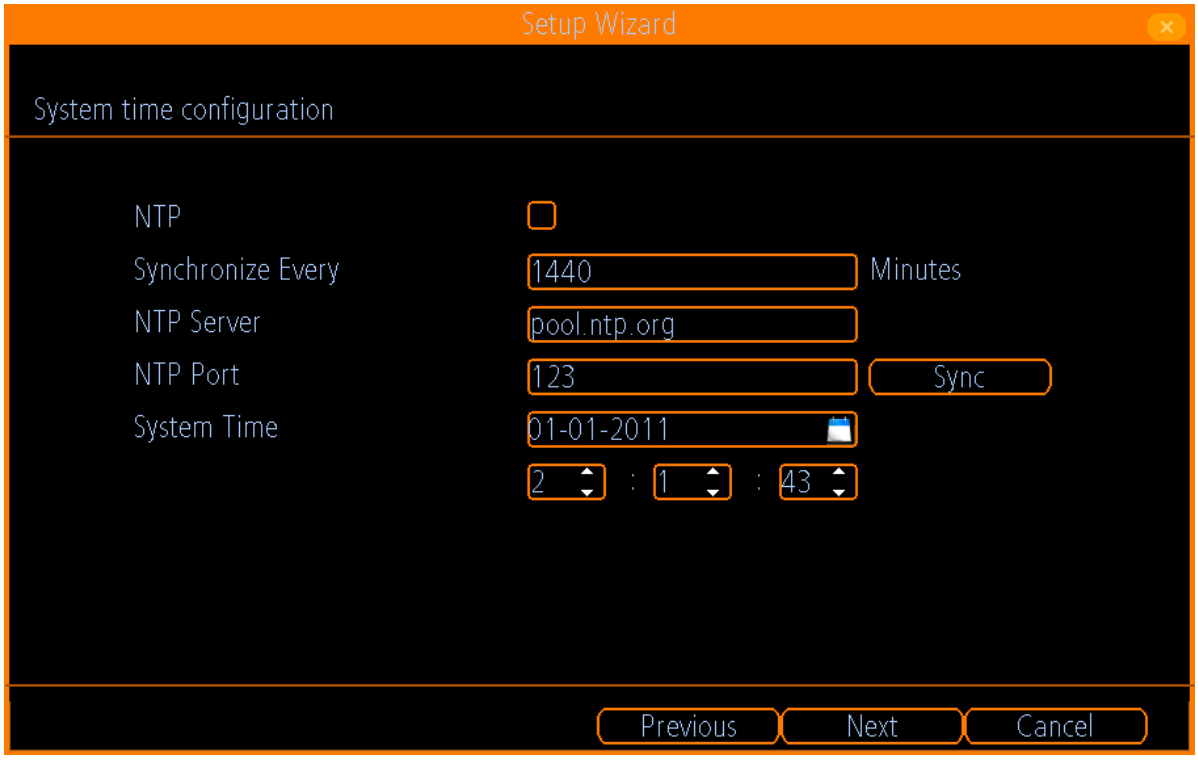
To setup DDNS:



1. Check the **DDNS** checkbox to enable feature.
2. Select DDNS Type.
3. Input the user name and password

8.2.2 NTP

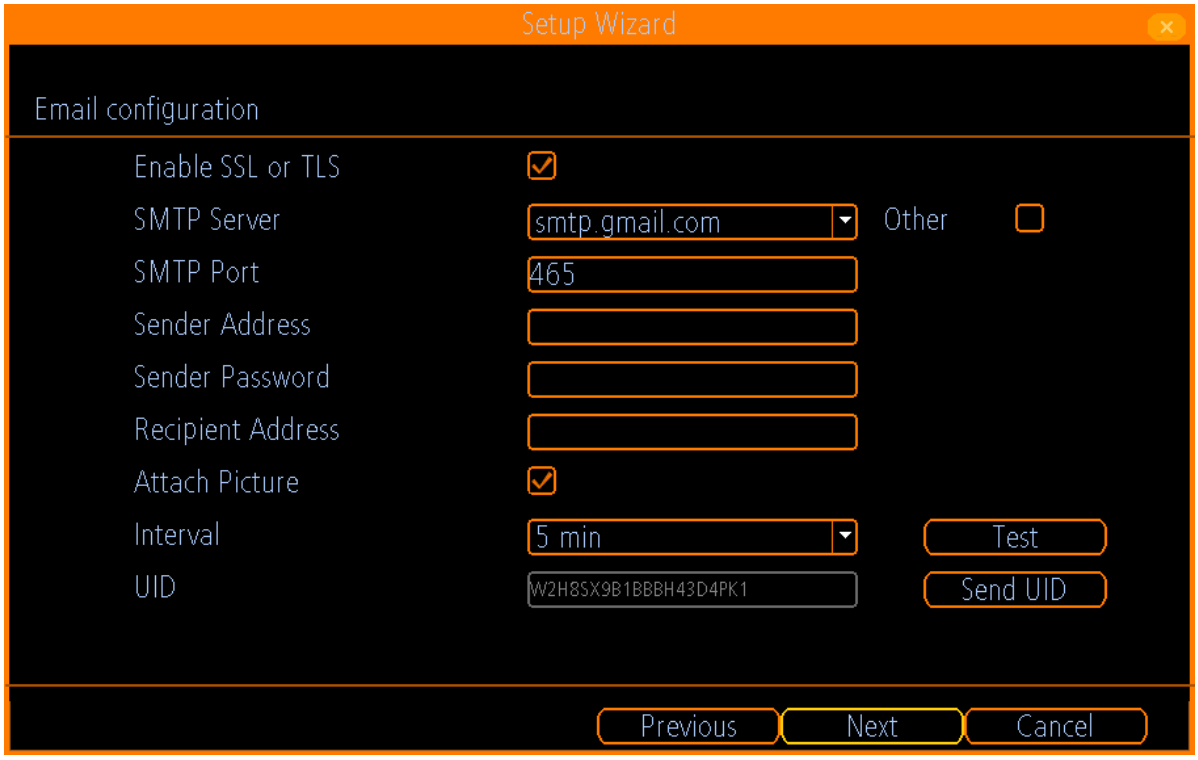
A Network Time Protocol (NTP) Server may also be setup on your DVR to keep the date and time current and accurate.



1. **Auto Sync**: Enable auto-sync, your NVR will automatically sync up the time with the NTP server.
2. **Synchronize Every**: When you enable Auto Sync, here you can define the time in minutes of how often the synchronization should be.
3. **NTP Server and NTP Port**: NTP server IP address and port.

8.2.3 E-mail Settings

To configure E-mail settings:

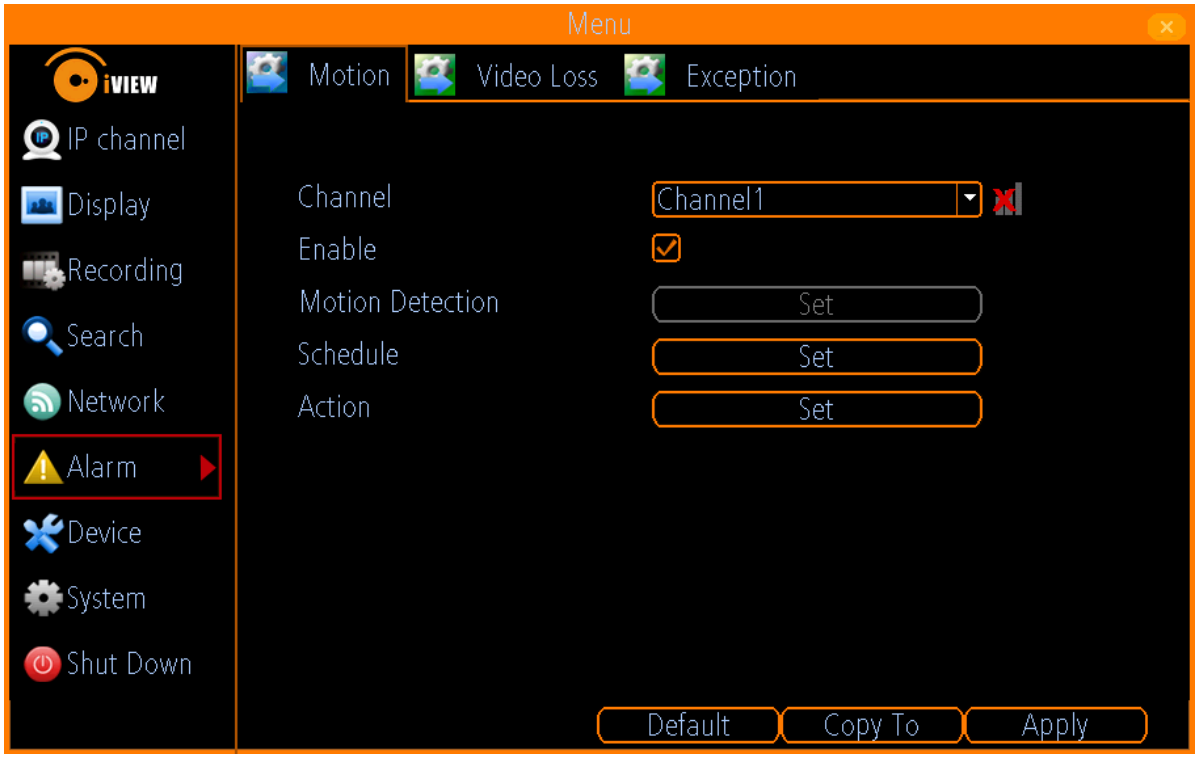


1. Enter e-mail settings.
2. Click the **Test** button to test e-mail settings.
3. Select **Attached Picture** if you want to send email with alarm images, the interval of two adjacent pictures is configurable.

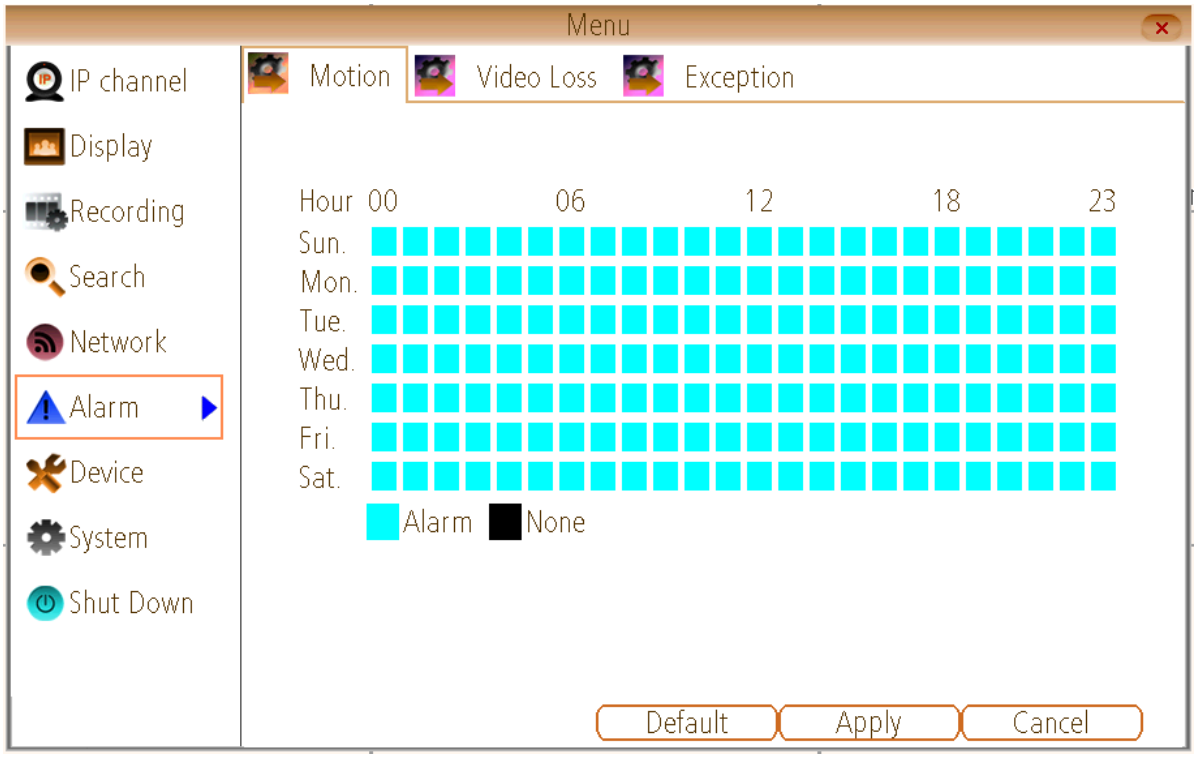
9 CONFIGURE ALARMS

9.1 Motion Detection

Set up properly, using motion detected recording will increase the number of days your NVR is able to record. It will only record relevant events rather than recording everything, making searching for an event easier. To set up motion detection:



1. Select the channel you'd like to configure.
2. Check the checkbox of **Enable** to enable Motion Detection.
3. Click the applicable **Set** button of **Motion Detection** to setup the motion detection area and sensitivity for that channel.
4. Configure the schedule for motion detection. User can define when it's armed or disarmed during 7x24.

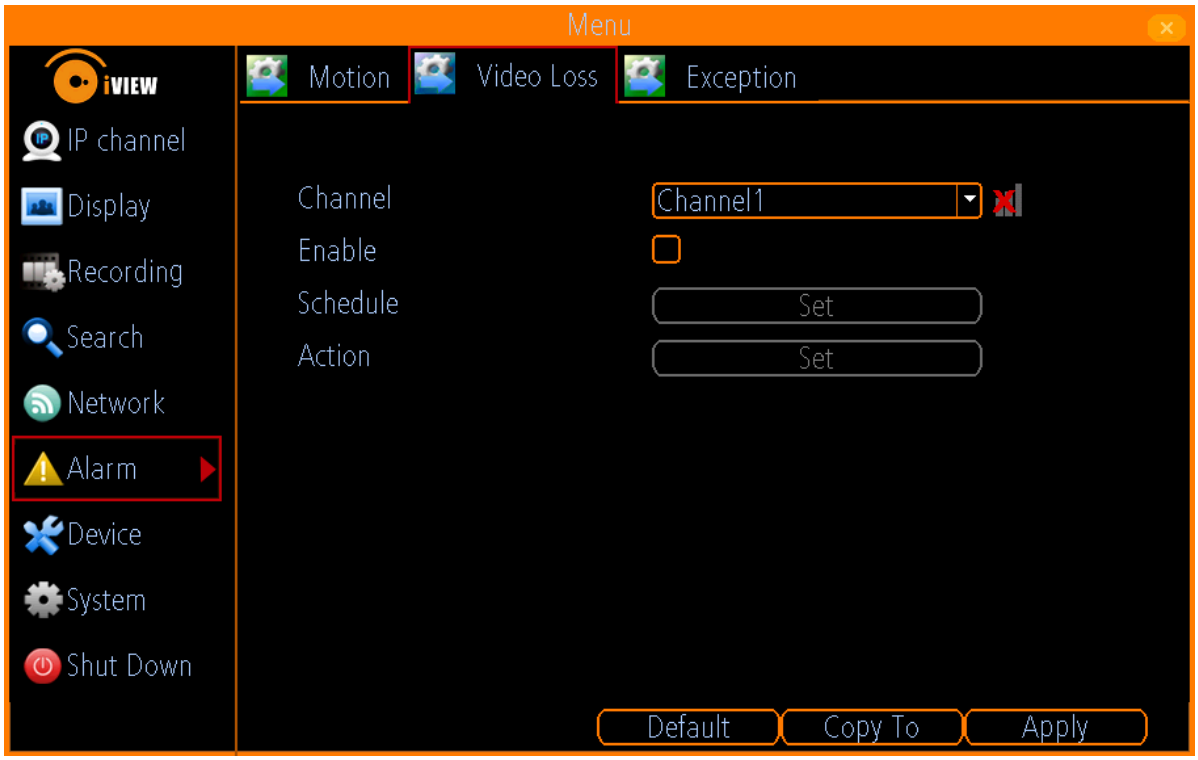


5. Configure the Action User can define what will happen when the camera detects motion. The actions include turn on the buzzer, send email and trigger recording.

9.2 Detecting Video Loss

Video Loss is regarded as a potential alarm event, and is considered to occur any time that the NVR doesn't receive an active video signal on any of its inputs. The default behavior of the NVR, when a channel has no incoming video signal, is simply to display "Video Loss" on a black background over the

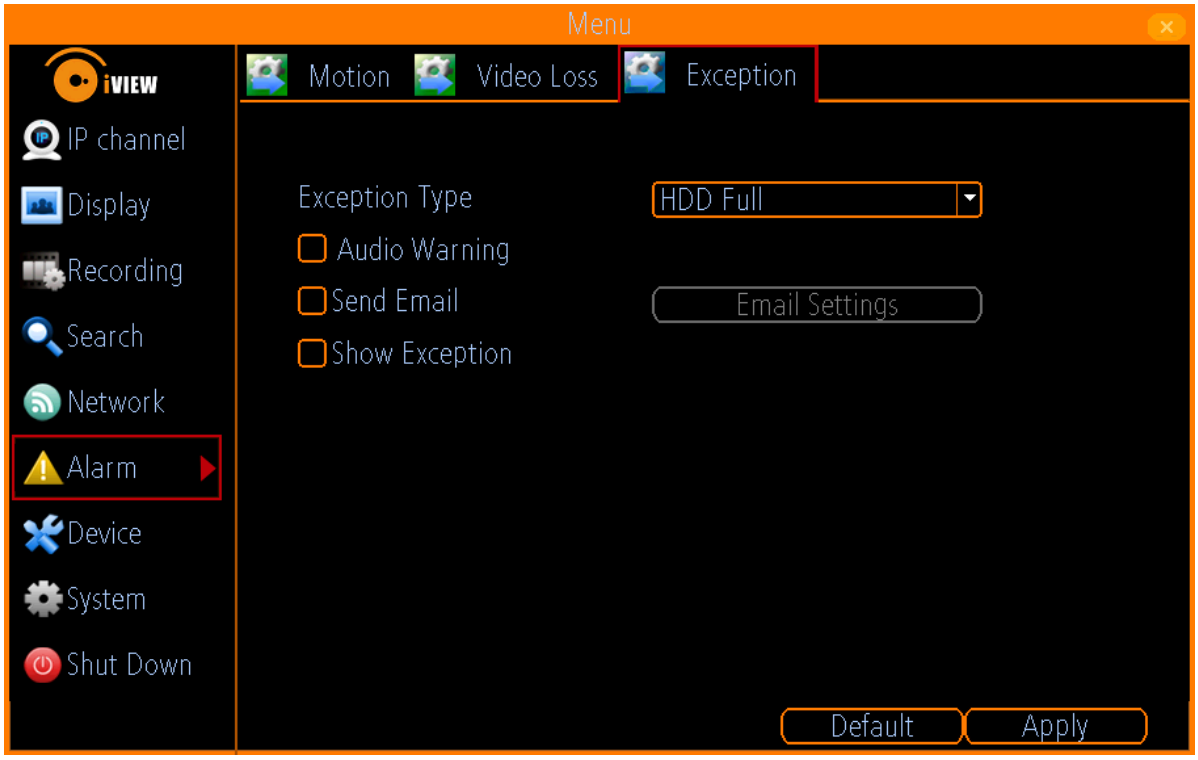
associated channel. If you're not using all the inputs on your NVR, then some channels will be in "permanent" Video Loss state. Just be sure that you don't enable a video loss action for these channels.



1. **Channel:** Which channel/camera you'd like to set the Video Loss behavior for.
2. **Enable:** Whether the selected channel has video loss monitoring active or not.
3. **Schedule:** Alters when the current Video Loss Action will be active.
4. **Action:** The action you'd like the NVR to take when this event occurs. It's set in the same way as the Action for any other event.

9.3 Detecting Exception

Setting exceptions allow the NVR to alert you when irregular events occur. These events include:

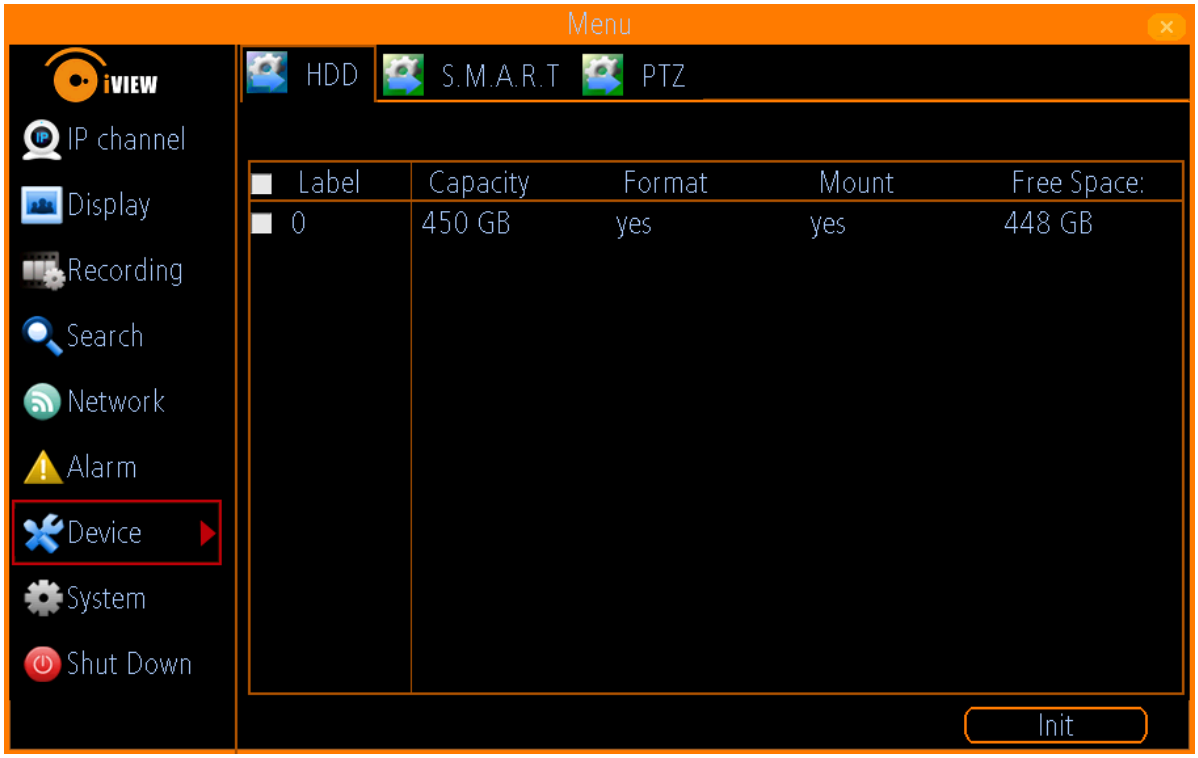


1. **HDD Full:** All installed HDD are full.
2. **HDD Error:** Errors occurred during writing of the HDD, no HDD installed or HDD had failed to initialize.
3. **Net Disconnected:** Disconnected network cable.
4. **IP Conflict:** Conflict in IP addresses setting.

10 CONFIGURE DEVICES

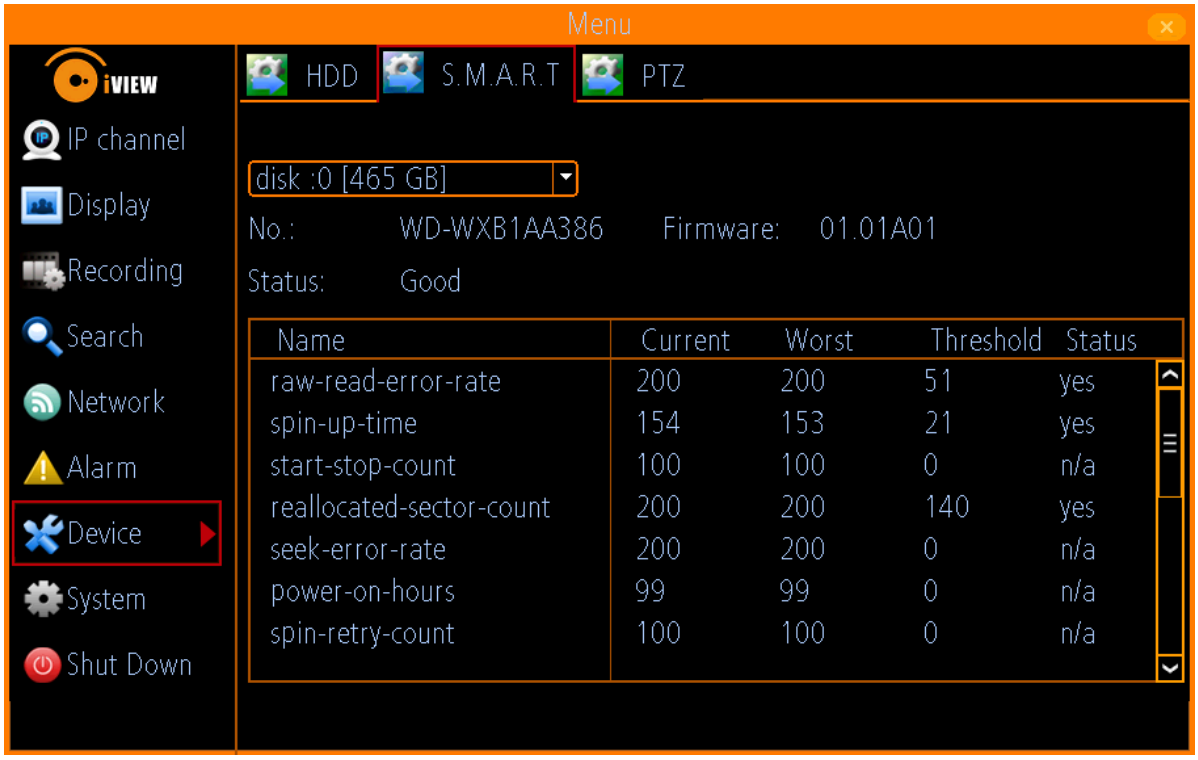
10.1 Managing HDDs

A newly installed hard disk drive (HDD) must be first initialize before it can be used with your NVR. Initializing the HDD will erase all data on it.



To initialize a HDD:

1. Select HDD to initialize.
2. Click the Init button.
3. Select OK button to begin initialization. After the HDD has been initialized, the status of the HDD will change from No to Yes.



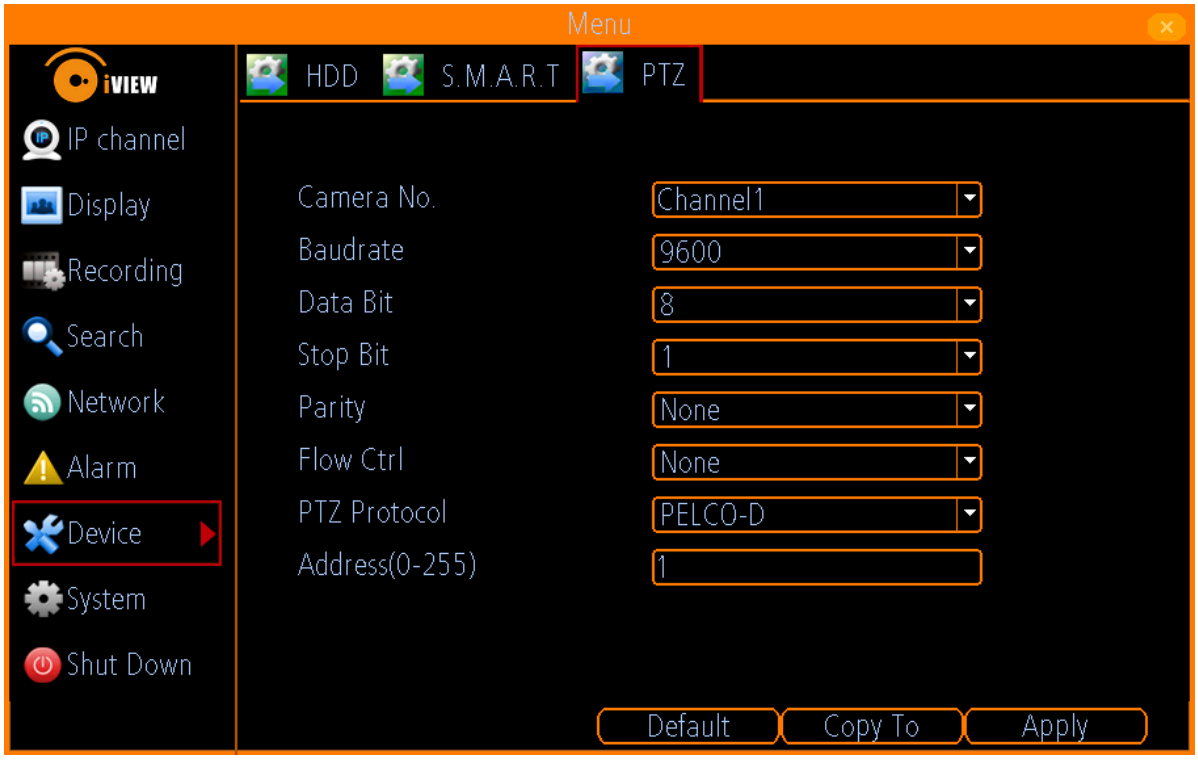
To view SMART information of a HDD:

1. Select one HDD.
2. You can see the detail S.M.A.R.T information of the HDD.

10.2 Configuring PTZ Settings

Settings for a PTZ camera must be configured before it can be used. Before proceeding, verify that the PTZ and RS-485 of the NVR are connected properly.

To configure PTZ settings:

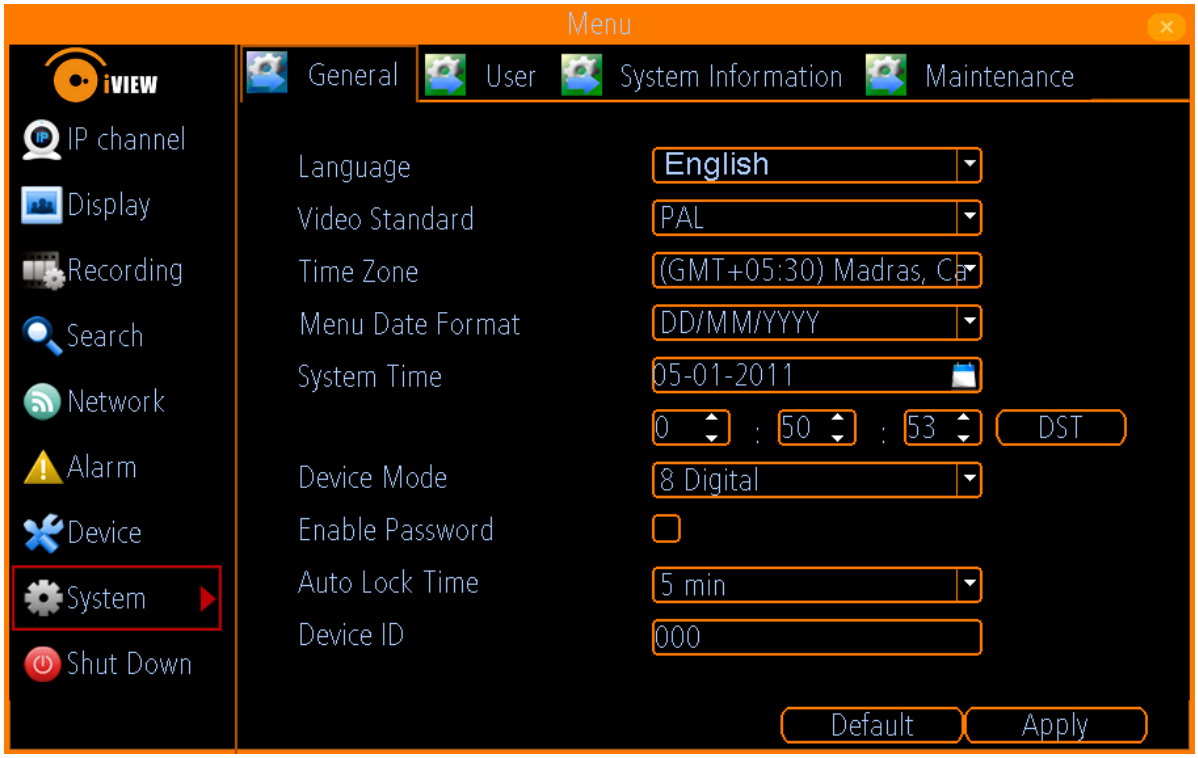


1. Select channel where PTZ camera is installed next to **Camera** label.
2. Enter PTZ settings according to the camera.
3. Click OK button to save and exit menu.

11 CONFIGURE SYSTEM

11.1 General

General menu contains many of the settings you'll need to configure to get the most out of your NVR system:



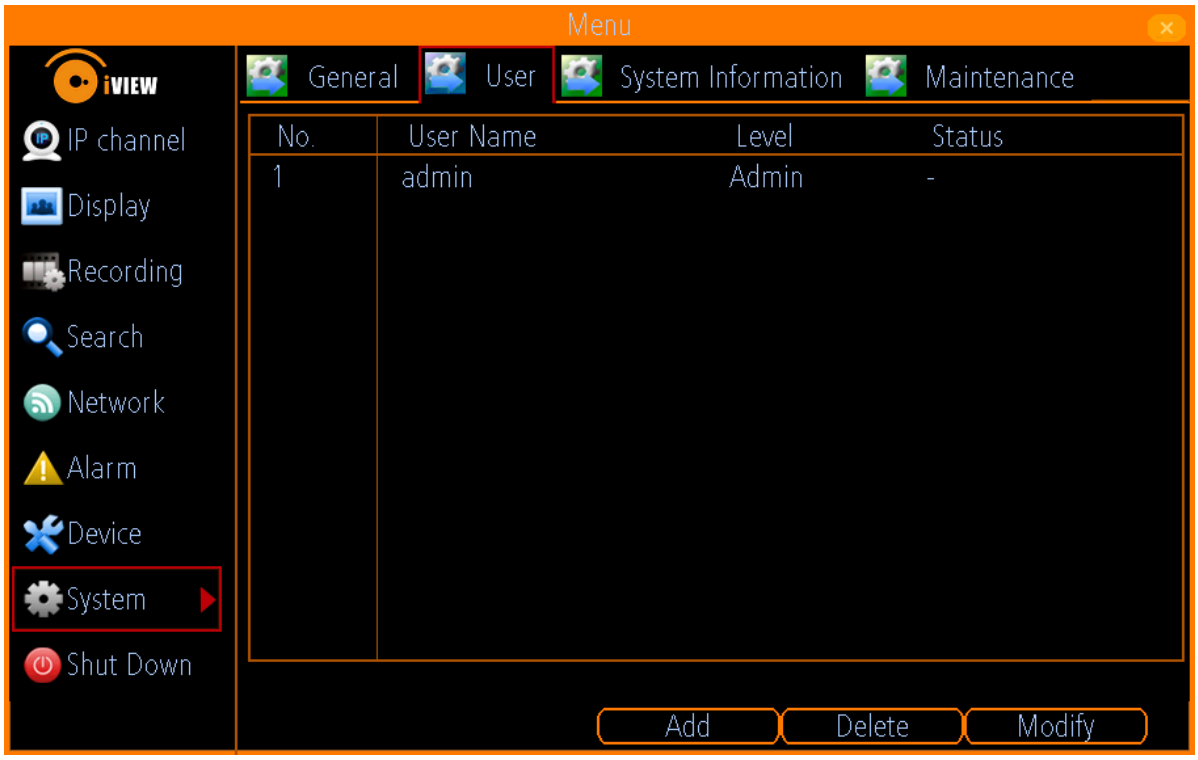
1. **Language**: You can select the language you want for the menus/GUI.
2. **Video Standard**: Here you can choose between PAL and NTSC.
3. **Time Zone**: Particularly important if you've enabled NTP - set this to the time zone where you happen to be.
4. **Menu Date Format**: The format of the date (e.g. DD/MM/YYYY or MM/DD/YYYY and so on).
5. **System Time**: This can be edited manually, or set to update automatically by using NTP
6. **DST Setting**: As the standards for daylight savings differ from country to country, and often state to state, you might need to manually tell the NVR exactly when it commences and ends in your locality. First, turn DST on. We suggest setting the Daylight Saving Time Mode to Date, and manually entering the dates and times that daylight savings time applies to and from, in your locality.
7. **Device Mode**: NX-8X Hybrid NVR supports several modes, including 8CH analog mode, 4Ch

analog + 4Ch IP mode, and 8CH IP mode. Change the mode, system will reboot.

8. **Enable Password:** When enabled, the NVR will require a password to access, even for local users. It's advisable to enable password protection
9. **Auto Lock Time:** When the password protection is enabled, the NVR will automatically time-out, where after it will ask for a password before returning to normal functioning. The **Auto Lock Time** determines how long a period of inactivity will cause the NVR to lock itself again.
10. **Device ID:** Differentiates your NVR from other devices. If you don't have any other NVR's or similar devices, then you can leave this as-is. If you've got multiple NVRs running on the same network, then it's a great idea to give each a unique ID.

11.2 User

By default, your NVR comes with one user account, the Administrator account. The Administrator user name is **admin** and the password is **12345**. The default password for Administrator should be changed right away for security reasons. The Administrator has the authority to add, delete or configure parameters for many of the system functions.



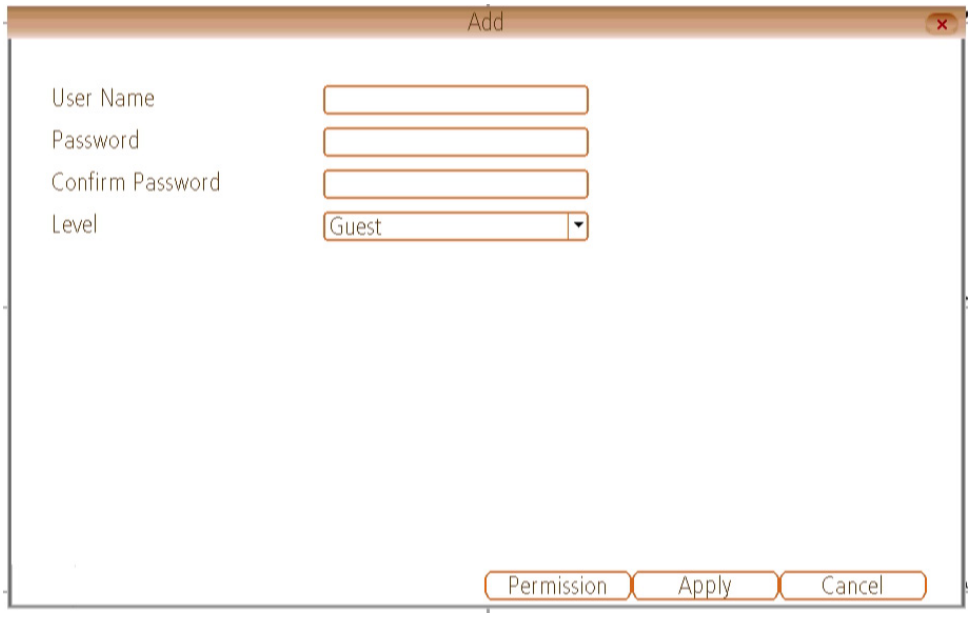
- To add additional users, choose **Add**.
- To remove a user, choose **Delete**.

- To customize a user's level of access, choose **Modify**. You cannot modify the access level of the default admin account - they can do everything. This is to prevent an unfortunate incident where, for example, no user has the permissions required to change another user's permissions - which could lead to the NVR being, in at least some senses, inoperable.

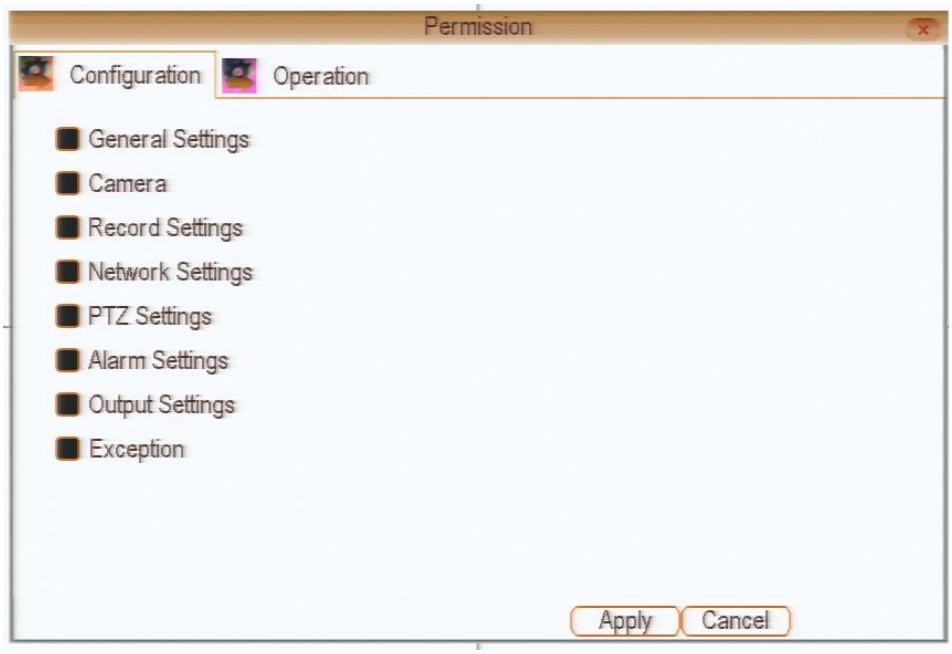
11.2.1 Adding a New User

You may add up to 10 new users to your NVR.

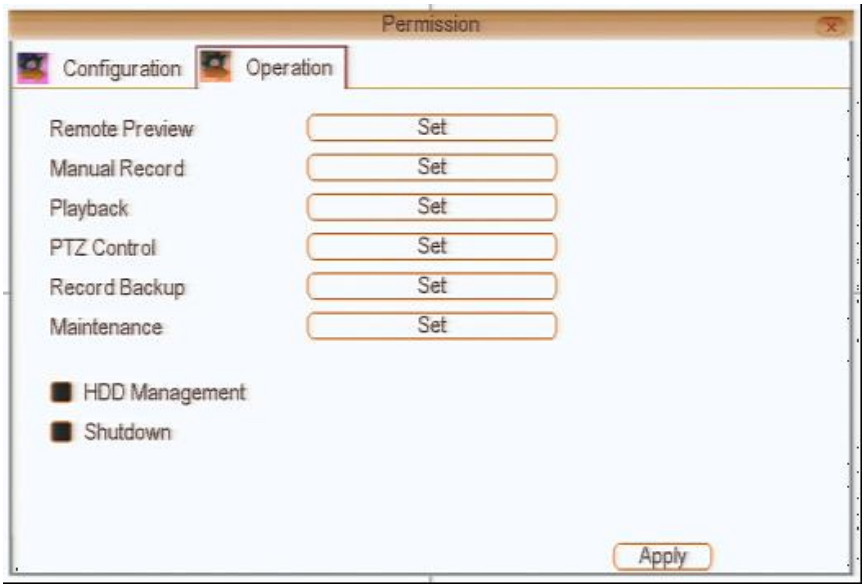
To add new users, select **Add**:



1. Enter information for new user, including User Name, Password and Level.
2. The Level is the user level and is separated into two tiers.
   - **Operator:** The Operator user level has the authority to configure two-way audio in network settings and all parameters in channel settings.
   - **Guest:** The Guest user can not configure network settings, but can configure the local playback as well as the remote playing in channel settings.
3. Select the Permission button to enter the Permission Settings menu.
4. Configure privileges for local settings under **Configuration** tab. The configuration page specifies which menu(s) the user can access. There is no hierarchy and any combination of menus can be selected (although some combinations would make little sense in practice).



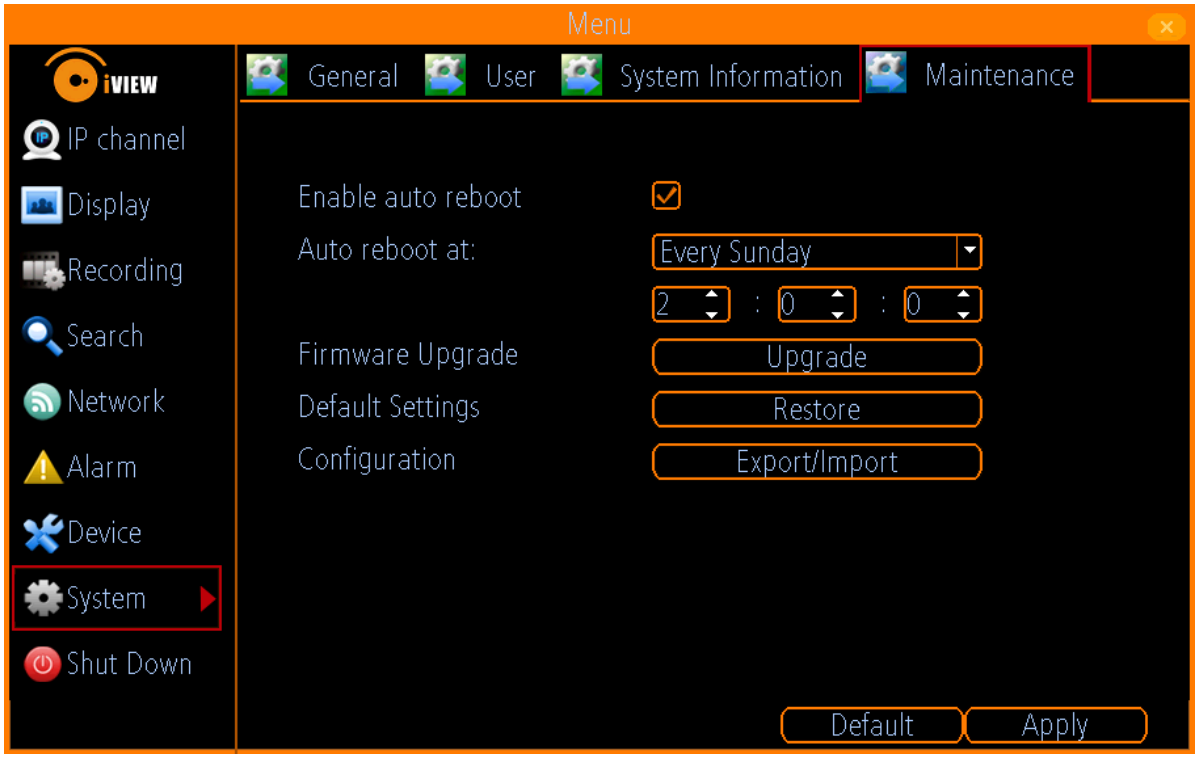
5. Configure privileges for operation under **Operation** tab. You can select which channels the user has access to, and what they can do with them. For example, you could set a user to have permission to view all channels in live viewing mode, but only playback channels 2 and 4.



11.3 System Information

System information is for use by technical support. When you call for technical support, you need to provide the information here.

11.4 Maintenance



Enable auto reboot: Will automatically shut the NVR down and restart it at a certain time of the day or

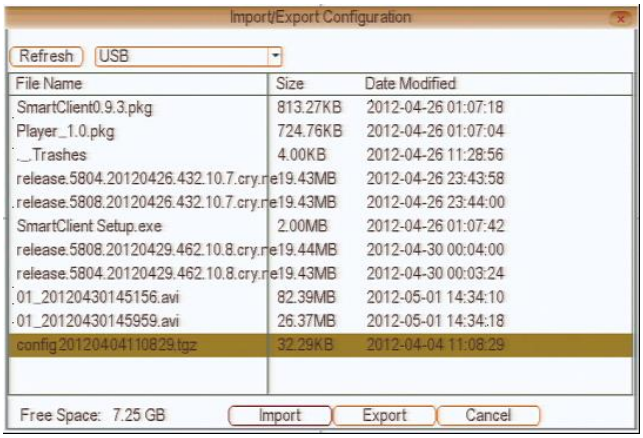
week. To ensure your NVR work stably, it's recommended to enable this checkbox.

Auto reboot at: Choose when you'd like the NVR to reboot. Typically, this will be a time when it's unlikely there'll be any activity for the NVR to record.

Firmware Upgrade (Upgrade): Instructs the NVR to update its firmware. You'll only need to use this option if instructed to do so by Technical Support. (Remember to Export your configuration first so you don't have to re-set everything!)

Default Settings (Restore): Loads the factory default settings. This must be done after a firmware upgrade to ensure proper operation of the NVR. You can retain your settings, recording schedule and so on by using the Import/Export Configuration function before upgrading the firmware.

Configuration (Export): Creates a file containing all the settings you've customized, including your recording preferences, schedule, user-list and so on.



To export your settings:

1. Insert a USB flash drive into the USB port on the front of the NVR. Ensure it has enough free space (a few MB is sufficient - the file is less than 50KB) and that it is not write-protected.
2. Choose **Configuration: Import/Export**. You'll see a file browser, showing the contents of the storage device.
3. Click **Export** to save your settings. Exporting your settings will overwrite any previous settings you've saved to that flash drive. If you want to do sequential configuration exports, you'll need multiple USB drives - or, rename the file using a PC (advanced users only).

Configuration (Import): Operates in the same way as the Export function, but is used to load a previously saved configuration file.

Locate the file you want on your flash drive - it will be called config(time & date).tgz. For example, config20120404110829.tgz would be the config file from April 4, 2012 at 11:08AM.

Loading the file will cause the NVR to automatically reboot.